

SERVICE MANUA

S-VHS VIDEO CASSETTE RECORDER

BR-S800E/BR-S500E

(S-VHS VIDEO CASSETTE RECORDER) (S-VHS VIDEO CASSETTE PLAYER)



VHS/S-VHS standard

5°C to 40°C

30 % to 80 %

-20°C to 60°C

PAL-type colour signal/PAL-type Y/C signal

Recording:SP, Playback: SP (BR-S800E) Playback: SP (BR-S500E)

Playback: 180 min. (BR-S500E)

Less than 2.5 min. for 180 min. tape

Recording: 180 min. /Playback: 180 min. (BR-S800E)

220 – 240 V AC, 50/60 Hz 49 W (59 W when using RM-G800U) (BR-S800E) 44 W (54 W When using RM-G800U) (BR-S500E) 430 (W) X 149.5 (H) X460 (D) mm Approx. 11.5 kg

BR-S800E



BR-S500E

SPECIFICATIONS

GENERAL

Format Signal system Recording & Playback

Tape speed Recording & Playback

Fast forward/Rewind time

Power requirement Power consumption

Dimensions Weight Operating temperature Storage temperature Humidity

VIDEO

Composite IN

Composite OUT

Y/C OUT External Ref

Horizontal resolution Signal-to-noise ratio

0.5 to 2.0 Vp-p, 75 ohms, unbalanced (BR-S800E) Y:1.0 Vp-p, 75 ohms, unbalanced (BR-S800E) C:0.3 Vp-p, 75 ohms, unbalanced (Burst) 1.0 Vp-p, 75 ohms, unbalanced

Y:1.0 Vp-p, 75 ohms, unbalanced C:0.3 Vp-p, 75 ohms, unbalanced (Burst) 0.5 to 2.0 Vp-p, 75 ohms, unbalanced More than 400 lines (S-VHS)/240 lines (VHS) More than 45 dB (S-VHS) / 45 dB (VHS)

AUDIO

Number of tracks Line IN Mic IN Line OUT

4 (Hi-Fi X 2, Normal X 2) -6 dBs, 10 k-ohms, unbalanced (BR-S800E) -67 dBs, 3 k-ohms, unbalanced (BR-S800E)

-6 dBs, 1 k-ohm, unbalanced

Phones OUT

Hi-Fi audio Frequency response Dynamic range Wow & flutter

Normal audio

Frequency response Signal-to-noise ratio

Wow & flutter

ACCESSORY

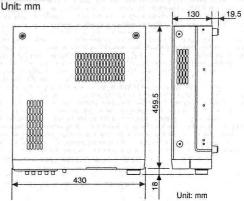
DIMENSIONS

- ∞ to -20 dBs, 8 ohms, unbalanced, stereo

20 to 20,000 Hz More than 85 dB Less than 0.006% WRMS

50 to 10,000 Hz More than 40 dB (NR-off, at 3 %

: Less than 0.25% RMS (Normal) : Power Cord



Desing and specifixations subject to chhange notice.

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

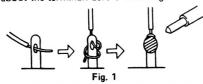
- Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- Parts identified by the symbol and shaded () parts are critical for safety.

Replace only with specified part numbers.

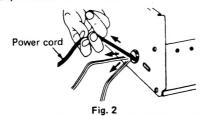
Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- Fuse replacement caution notice.
 Caution for continued protection against fire hazard.
 Replace only with same type and rated fuse(s) as specified.
- 4. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
- 3) Spacers
- 5) Barrier

- 2) PVC tubing
- 4) Insulation sheets for transistors
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- 8. Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.



- 10. Also check areas surrounding repaired locations.
- 11. Products using cathode ray tubes (CRTs)
 In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

- 1) Connector part number: E03830-001
- Required tool: Connector crimping tool of the proper type which will not damage insulated parts.
- 3) Replacement procedure
 - (1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).



Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid fraved conductors.



(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

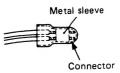


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimpfully to the complete closure of the tool.

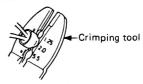


Fig. 6

(5) Check the four points noted in Fig. 7.

Not easily pulled free Crimped at approx. center of metal sleeve

Wire insulation recessed more than 4 mm

Fig. 7

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

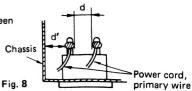
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

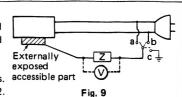


4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.



5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

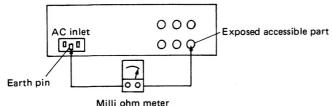


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V		D > 1 MO/E00 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V Japan	Japan	R≧1 MΩ/500 V DC	AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	_	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	0—^^o 1 k\$2	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V	Europe & Australia	0	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Antenna earth terminals
220 to 240 V	Europe & Australia	0— VV V—0	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1 GENERAL DESCRIPTION AND DISASSEMBLY

1. 1 INTERNAL SWITCHES

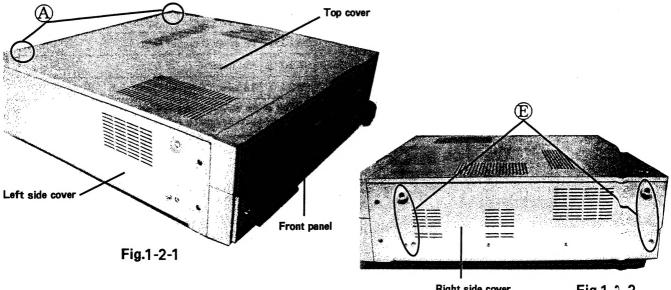
• 0 3 SLOT MOTHER board

Symbol No.	Switch Name	Setting at Shipment	Function	
SW 1-1	Output selector switch	ON: SHORT ① ② ③ OFF: OPEN	To select one of output signals originating from the intern circuits of this set and from an optional board connected to the upper slot. For detail of switch setting, refer to the service manual of the externally connected optional board. ON :Output signal of internal circuit is selected. OFF :Output signal via optional equipment is selected.	
	,	·	For the function of respective switches, refer to the following table.	
			SW1-1-① To select C signal output of S-OUT terminal.	
SW 1-2	Output	ON : SHORT	SW1-1-② To select Y signal output of S-OUT terminal.	
	selector switch	023	SW1-1-③ To select output of LINE OUT-1 terminal.	
	J. SWITTEN		SW1-2-① To select C signal input.	
		OFF : OPEN	SW1-2-② Not used.	
		OFF. OFEN	SW1-2-③ To select Y signal input.	
			Note: If all of the above switches are set to OFF without connection of optional board, no signal is output.	
SW 2-1	Output selector switch	ON: SHORT	manual of the externally connected optional board. ON :Output signal of internal circuit is selected. OFF :Output signal via optional equipment is selected.	
			SW2-1-① To select C signal output of S-OUT terminal.	
SW 2-2	Output	ON : SHORT	SW2-1-② To select Y signal output of S-OUT terminal.	
	selector switch	023	SW2-1-③ To select output of LINE OUT-1 terminal _	
			SW2-2-① To select C signal input.	
		OFF : OPEN	SW2-2-② Not used.	
		,	SW2-2-③ To select Y signal input.	
		PACE	Note: If all of the above switches are set to OFF without cyranection of optional board, no signal is output.	
SW 3	TBS switch	ON OFF	To select external sync signal input to the set. OFF :Input signal to the SYNC IN terminal is selected. ON :Signal that passed the optional TBS board (SA-N50) is selected. (When TBS board is connected, set this switch to O.S.)	
			Note: "ON" and "OFF" appearing on the board differ from the ON and OFF operations of this switch shown on the circuit dagram.	

1. 2 REMOVAL OF EXTERNAL COVERS

Note: When disassembling the set, make sure that the power is disconnected (power cord is disconnected from the AC outlet) beforehand.

Cover to remove	Screw to remove	Description
Top cover	(2pcs.)	Remove two screws and pull the top cover rearward to remove it.
(Fig.1-2-1)	total (2pcs.)	
Bottom cover	®(3pcs.), ©(1pcs.)	 Remove screws
(Fig.1-2-4)	total (4pcs.)	
Front panel	(2pcs.)	 Remove the top cover. (Refer to the above description.) Remove all the knobs of the SEARCH control, TRACKING control (with washer), and various LEVEL controls. Carefully lift the front panel assembly upwards to disengage the three hooks @ retaining it in the upper side. (Fig. 1-2-3)
(Fig.1-2-1,3,4)	total (2pcs.)	 Tilt the front panel assembly frontward to disengage the three hooks (1) retaining it in the lower side, and then take out the front panel assembly. (Fig. 1-2-4). Note: For removing and reinstalling the cassette housing, make sure to remove the front panel beforehand otherwise the REC SAFETY switch may be damaged.
(Tig. 1-2-1,0,4)	total (2poc.)	
Rear bracket	◎ (4pcs.)	 Remove four screws with the arrow, and pull out the rear cover. Note: The rear bracket is fitted with the REAR board, which is directly connected to the MOTHER-2 board with connectors. When reinstalling the rear bracket, it is recommended to remove the top cover to do
(Fig.1-2-5)	total (4pcs.)	the work easily.
Right(Left) side cover	© (4pcs. each)	 Remove four screws © from a side (right or left) and pull out a side cover. Note: When rescrewing ©, pay attention to two screw holes near the front panel. (There are two other screw holes nearby the front panel, and they are not to the panel.
(Fig.1-2-1,2)	total (4pcs.)	screws © as shown in Fig. 1-2-2.)



Right side cover

Fig.1-2-2

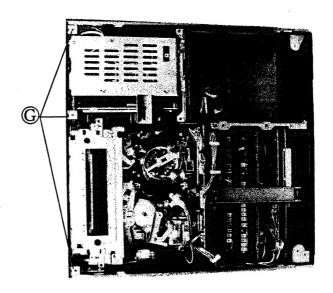


Fig.1-2-3

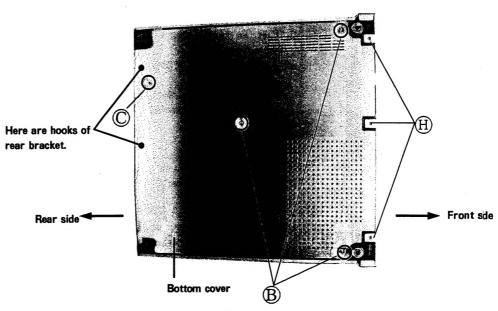


Fig.1-2-4

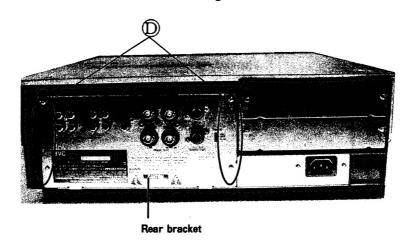


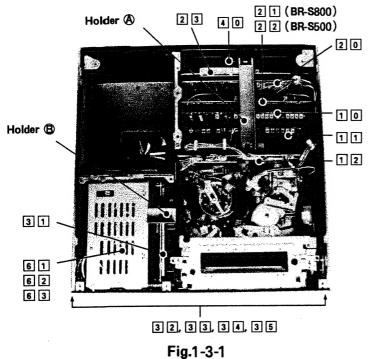
Fig.1-2-5

1. 3 REMOVAL OF MAIN BOARDS

Note:

When removing and reinstalling boards, make sure that the power is disconnected (power cord is disconnected from the AC outlet) beforehand. When reinstalling boards and connectors that were once removed or disconnected, make sure to set and connect them as they were before removal.

Board Name	Cover to remove	Description	
10 VIDEO-1 11 VIDEO-2	*	 Loosen the screw of the holder (a) and turn the holder (b) upwards. Lift the desired board upward and take it out. (Disconnect the connector of the desired board if there is.) Note: The N. AUDIO board is connected with the FM AUDIO board. 	
2 FM AUDIO 21 N. AUDIO (BR-S800) 22 N. AUDIO (BR-S500)	Тор	* When connecting the wires originating from the connector CN1 of the NORMAL AUDIO board, arrange them so as to pass above the upper side of the board holder. Arrange wires above the board holder.	
23 AV I/O		ON1 N. AUDIO board	
31 SYSCON	cover	 Loosen the setscrew of the holder ® and slide the holder ®. Lift the desired board upward and take it out. Note: For removing the SW. REGULATOR board, remove four screws retaining it to the 	
SW. REGULATOR 60 PRIMARY 61 SW. REGULATOR 62 REGULATOR		chassis. If the wire clamp on the bottom is removed, the SW. REGULATOR board can be taken out as it is assembled with the original wiring.	
12 AV PRE/REC		 Remove two screws retaining the AV PRE/REC board to the drum base. Disconnect all connectors of the board. 	
30 SERVO M-CTL	Bottom cover	 Disconnect all connectors of the board. Loosen the two setscrews and open the board at an angle of 45° Remove the board from the holder. 	
40 REAR	Rear bracket	Remove the screws retaining the rear bracket and REAR board together with. Remove the REAR board from the rear bracket.	
OPERATION 32 OPERATION-CPU 33 OPERATION-VR 34 OPERATION-SW 35 OPERATION-DIAL	Front panel	 Remove the screws retaining the boards to the chassis. Disconnect all connectors of the boards. Pull the boards frontward to remove them together. Note: For removing the OPERATION-CPU board, it is required not only to remove the OPERATION-VR board beforehand but also to pay the most careful attention to the board connector because the OPERATION-CPU board is directly connected to the MOTHER-1 board with the connector. 	



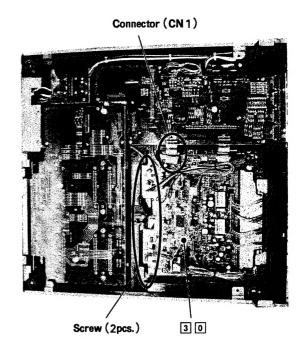


Fig.1-3-2

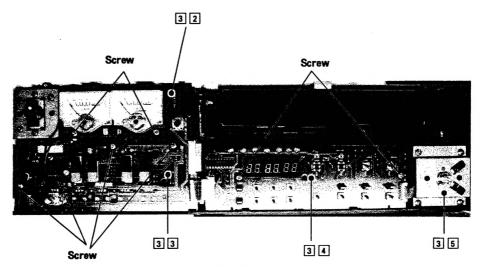


Fig.1-3-3

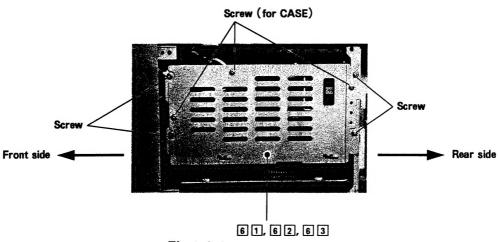


Fig.1-3-4

SECTION 2 MECHANISM ADJUSTMENT

2.1 GENERAL DESCRIPTION

2.1.1 Precaution

- (1) Before use of a soldering iron, make sure to disconnect the power cord of the set from the outlet.
- (2) Do not pull connector cables strongly for disconnecting connectors.
- (3) Do not disturbe VRs and other controls unreasonably as the set has trouble of unknown origin.
- (4) When inserting a cassette tape into the cassette housing, don't do it if the set is not placed right such as it is laid on its side, rear, top, or so. Otherwise the cassette housing may be damaged.

2.1.2 Jigs and special tools for mechanism adjustment

The following jigs and special tools are necessary for adjusting the mechanism.

General tools Besides the below special tools and jigs, the following general tools are necessary.

- Nut driver (5.5 mm)
- Hex. keys (0.9 mm, 1.27 mm, 2 mm)
- Ordinary screwdrivers (-) (No. 1, No. 2)
- Phillips head screwdriver (+)
- Spacers (0.1 mm)

Alignment tape MHPE,MBAE,MBAE-3,MBPE-X	Cassette torque meter PUJ42881/PUJ42881B	Parallel check plate PGJ04035(0.05) / PUJ50204(0.1)	Height gauge PGJ04032
Line head wrench PGJ04033	Microchecker PUJ49712-2	Hex. driver PGJ04034(2mm)	

Table 2-1-1

2.1.3 Specifications of alignment tapes

MHPE

Video signal	Audio signal	Application	Remark
VHS (SP mode) Stairstep	6kHz	For check and adjustment of interchangeability. For adjustment of PB switching point.	Stairstep segment of MH-2 tape is substitutable.

-MBAE

Video signal	Audio signal	Application	Remark
CTL signal only	1kHz	For check and adjustment of audio PB circuit	1 kHz segment of MH-2 tape is substitutable.

-MBAE-3

Video signal	Audio signal Application		Remark
-	1kHz (Guard band recording)	For rough adjustment of stereo A/C head height.	Tape that MHAE-3 is changed just in the name.

MBPE-X

Video signal	Audio signal	Application	Remark
	6kHz eiled every 5 frames)	For adjustment of X-value.	Tape that MHPE-X is changed just in the name.

2.2 MAINPARTS REPLACEMENT TABLE

Periodic inspection and maintenance are important to ensure the original capacity and reliability of the set. The following table shows just a maintenance and replacement standard that is compiled based on general and average use of the set. In actual, the periods will widely vary depending on environmental and usage conditions.

If the inspection and maintenance work of the following items are improperly performed, it not only shortens the periods but also gives bad influence on the set. Also keep it in mind that rubber parts may deform and age even when the set is not used and the service life of the upper drum is particularly affected by environmental and usage conditions.

		5	David November	Standa	rd serv	rice peri	iod ※	Def Cont	Damania
_	No.	Part Name	Part Number	1000	2000	3000	4000	Ref. Sect.	Remark
	①	Supply guide shaft	_	*	*	*	*		
	2	Tension arm assembly	PRD43638A-01					2.3.7	
	3	Supply guide roller	PRD43721A					2.7.2	
	4	Full erase head (BR-S800)	PGZ01841					_	
	(5)	Supply pole base assembly	PRD30809A					2.3.13	
	6	Supply inertia roller	PGZ01920	1 .	_			2.3.2	Included in Drum assembly
ape	7	Take-up inertia roller	PGZ01920-02	*	*	×		2.3.2	Included in Drum assembly
tra	8	T.U. pole base assembly	PRD30811A-02					2.3.13	
nspo	9	A/C head	PGZ01840					2.3.6	Excluding A/C head board
orts	10	Take-up guide roller	PRD44151A-01					2.7.3	
Tape transport system	0)	Guide arm roller assembly	PRD43660A-02					2.7.4	
ğ	12	Capstan shaft	_	*	*	*	*	_	
	13	Pinch roller arm assembly	PRD43387A-01	0	•	0	•	2.3.8	
	13	Drum assembly (BR-S800) Drum assembly (BR-S500)	LDR2003A LDR2004A	*	*	0	•	2.3.5	
	15	Upper drum assy (BR-S800) Upper drum assy (BR-S500)		•	•	•	•	2.3.2 / 2.3.3	Included in Drum assembly
	16	Capstan motor	PGZ01535-01-01				•	2.3.9	
	17	Reel motor	PGZ01958A				•	2.3.10	Assembled part
rive	18	Mode motor	PRD44123A				•	2.3.11	
Drive system	19	Loading belt	PRD30022-17 PRD30022-18	•	•	•	•	_	Motor side Worm gear side
ĮΞ	20	Cassette housing	PGS21023A				•	2.3.1	
	20	Reel brake	PRD43479A-01		•		•	2.3.12	
Ot.	2	Brush assembly	PRD44288A		•		•	2.3.2	Included in Drum assembly
Others	23	Head cleaner	PQ44837	•	•	•	•	_	Not included in Drugn assembly

X For service hours, follow the indication of the hour meter of the drum in principle.

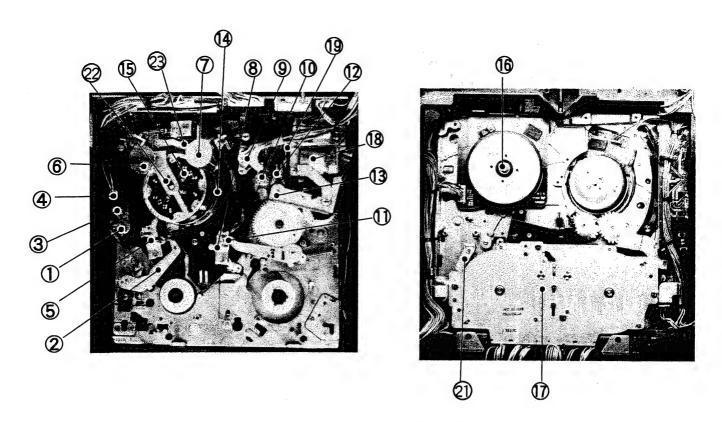
★=Cleaning

○=Check and Replace if necesse ry, or Check and Clean

●=Replacement

2.2.1 Location of main parts

For names of respective parts indicated by numbers, refer to the table on the previous page.



2.2.2 Cleaning

Periodical cleaning of the tape transport system is desirable, however, it is almost impossible to put it into practice on schedule. Therefore, it is strongly recommended to clean the tape transport system when a set is brought in for repair, etc. For cleaning, use fine wooven cotton cloth (like cotton shirting) moistened with ethylalcohol.

 Dirty video head causes rough playback picture and non-reproduction of picture in an extreme case.

To clean the video heads, lightly press such cotton cloth as mentioned above to the upper drum while turning the upper drum.

Note:

Do not move the cleaning cloth on the upper drum since the video head is weak against vertical force. Otherwise, the video heads may be damaged.

- (2) Dirty tape guide not only gets the video heads dirty much more but also damages tapes.
- (3) Dirty and dusty brush causes snow noise in playback picture and non-picture reproduction.

2.2.3 Oiling and greasing

If oil or grease on the other party is dirty and aged in case of parts replacement, wipe it off and apply new oil or grease as well as to do it for new parts.

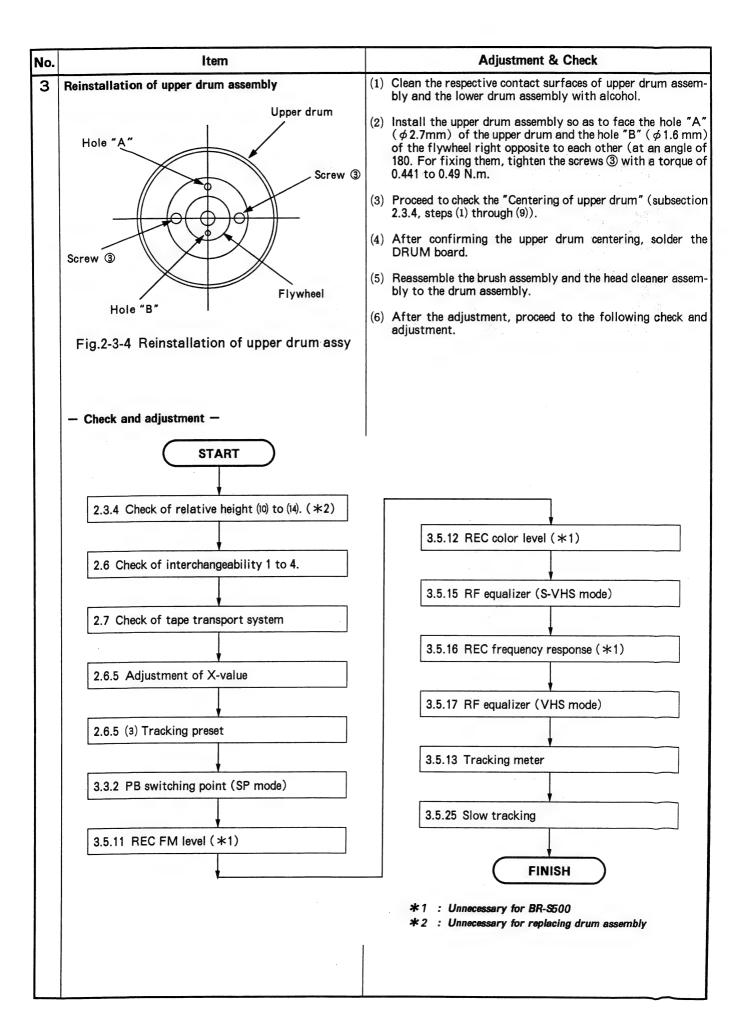
(1) Oil and grease used in this set are as follows.

İtem	Name	JVC Part No.		
Oil	Cosmo Hydro HV56	COSM0-HV56		
〈General spindle oil (low viscosity) is substitutæble〉				
	Moriton Grease (Black)	MOS2-C		
Grease	Fuloil G-31KAV (light blue)	KANTO- G-31KAV		
	FULOIL GB-TS-1 (brass)	KANTO- GB-TS-1		

- (2) Grease the control cam every 2000 hours of operation.
- (3) For other parts, apply grease to theme very 4000 hours of operation or on parts replacement.

2.3 REPLACEMENT OF MAIN PARTS

Adjustment & Check No. Item Cassette housing assembly When reinstalling the cassette housing assembly to the set, do it as the front panel is taken off otherwise the REC safety switch may be (1) Take out the front panel assembly. (Section 1.2) (2) Remove two screws 1 and one screw 2. (3) Push the cassette housing toward the drum once to release it from the hook, and lift it upward while disconnecting the housing connector and taking it out. Cassette housing Fig.2-3-1 Removal of cassette housing assy Front of set REC safety switch Main deck Hook Fig.2-3-2 Reinstallation of cassette housing assy Removal of upper drum assembly (1) Take out the top cover assembly. (Section 1.2) (2) Remove the head cleaner assembly. (3) Remove two slit washers ① and then remove the inertia roller with careful attention to spring, etc. not to lose them. Note: When the slit washer is removed, replace it with new one. Brush assy (Part No. PQM30017-25) (4) Remove one screw 2 and then remove the brush assembly. Drum board (5) Unsolder on the DRUM board and remove solders. Upper (6) Remove two screws 3 and take out the upper drum assemdrum bly. assv SP. iner tia roller ertia roller Lower drum assy Fig.2-3-3 Removal of upper drum assembly



No.

Item

Adjustment & Check

4 Centering of upper drum

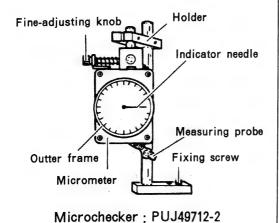
If the upper drum is installed being deviated from the center of the drum shaft, it causes jitter, etc. When the upper drum is replaced, make sure that no wobbling is observed in the upper drum rim.



Microchecker mounting place

Fig.2-3-5 Mounting of microchecker

- Cautions on handling of microchecker
- ① Keep the microchecker out of any shock or strong vibration since it is a high precision instrument.
- ② Do not apply unnecessary force to the microchecker's probe.
- ③ Although the outer ring of the microchecker can be turned in a range of 0 graduations, do not turn it with strong force (more than 300 g-cm).
- Be careful not to touch the microchecker's probe with the heads, particularly with the video heads.
- (5) On setting the microchecker, make sure that the working direction of the probe points at the center of the upper drum.
- (®) If rubbing or grating sound occurs in measuring, it results from bad setting or abnormal contact of the microchecker. Check that there is neither dust nor foreign substance on the upper drum and tip of the probe.



Note:

For centering the upper drum, a setscrew (SDSP2610Z) is necessary besides a microchecker.

- (1) Turn the mode motor counterclockwise (toward the rear side) to enter the set into the loading end state.
- (2) Remove the fixing screw from the base of the microchecker.
- (3) Set the microchecker holder at the place shown in Fig. 2-3-5 and fix it with a screw (SDSP2610Z).
 Notes:
 - It is allowed to mount the microchecker holder at the place where the earth plate is installed under the cassette housing assembly.
 - If there is no internal thread for the specified screw at the place shown in the figure, use a tapping screw (SDST2608Z) to fix the microchecker holder.
- (4) Mount the microchecker with care not to knock the upper drum with it.
- (5) Slowly turn the microchecker's fine adjustment knob clockwise so that the pointer indicates "0" graduation. Pointer adjustment is also possible by turning the outer ring of the microchecker, but the adjustable range is limited within 0 graduations. To apply the microchecker to the drum assembly, plae it between the 4th and 5th grooves of the drum from the bottom.
- (6) Turn the upper drum gently with care not to apply lateral pressure to it. (Turn it with a paper string, for exemple). If the pointer deflects, it must be within micron at maximum.
- (7) When the pointer deflection exceeds micron, turn the fine adjustment knob counterclockwise and remove the probe from the upper drum. Then, loosen two screws retaining the upper drum while adjusting the upper drum position slightly. Tighten the two screws again.
- (8) Repeat check of pointer deflection and adjustment of the upper drum position until pointer deflection becomes within micron.
- (9) When dismounting the microchecker, turn the fire adjustment knob counterclockwise first.

- Check of relative height -

- (10) Turn on the power switch.
- (1) Connect the oscilloscope to TP101(:8F) on the ☐② AV PRE / REC boardand play back the MHPE alignment tape.
- (12) Turn the TRACKING VR to check that waveform of CH1 and CH2 become maximum at the same time.
- (13) If there is a remarkable time lag and level dfference between the two channels, remove the upper drumon ce and clean the upper surface of the flywheel of the lowe drum. Fit the upper drum again and repeat the above steps (1) through (12).
- (14) If the result of repeated adjustments of the steps (1)t rough (13) does not meet the requirement, replacement of he drum assembly is recommended.

Adjustment & Check Item No. Note: 5 **Drum assembly** When holding the drum assembly, make sure not to touch the brush (Upper drum + Lower drum + Inertia rollers + Brush) assembly. When replacing the pole base, do it as the drum assembly (1) Remove the 12 AV PRE/REC board. (Section 1.3) (2) Remove the head cleaner assembly. (3) Disconnect the connector (bottom side) and remove three screws ①, then remove the drum assembly to replace it with another. (4) After installation of a new drum assembly is complete, reinstall the AV PRE/REC board assembly and the head cleaner assembly. Then, conduct the check and adjustment according to the flowchart appearing on page 2-5. Tightening torque: 0.49 N-m (5kg-cm)

Reference —
 Before replacing drum assembly.

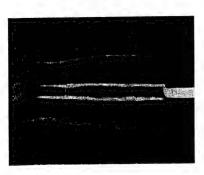
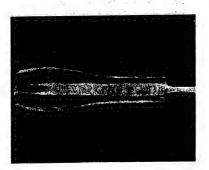


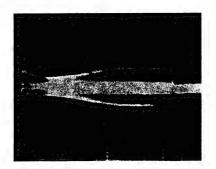
Fig.2-3-6 Removal of drum assembly

Tracking center

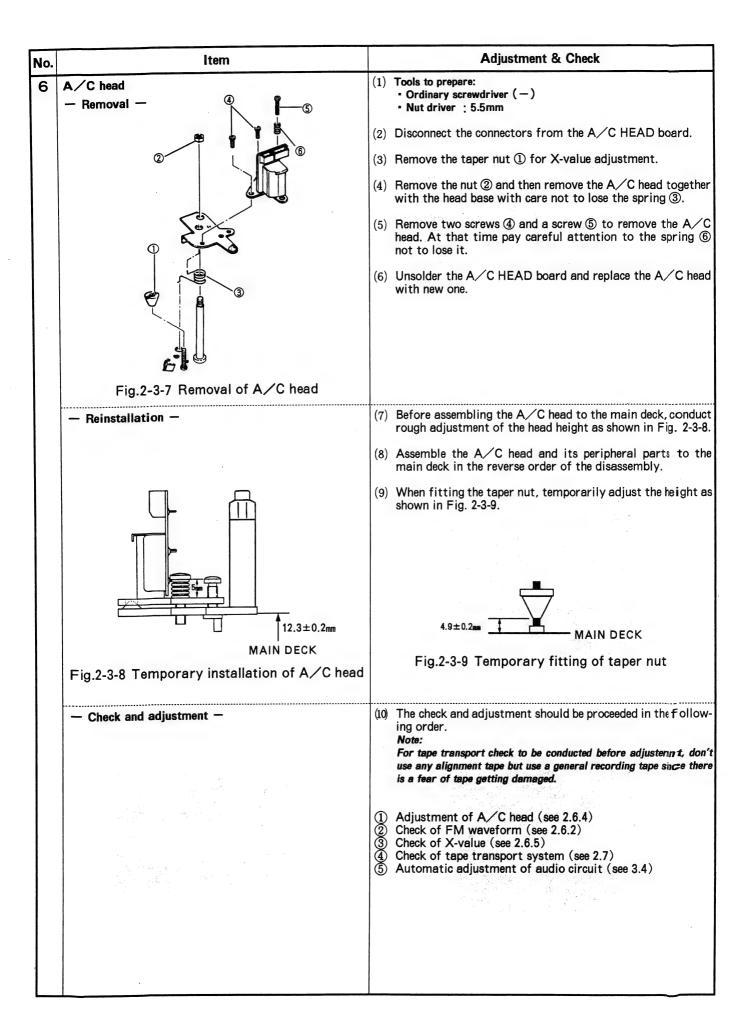


Tracking (-)

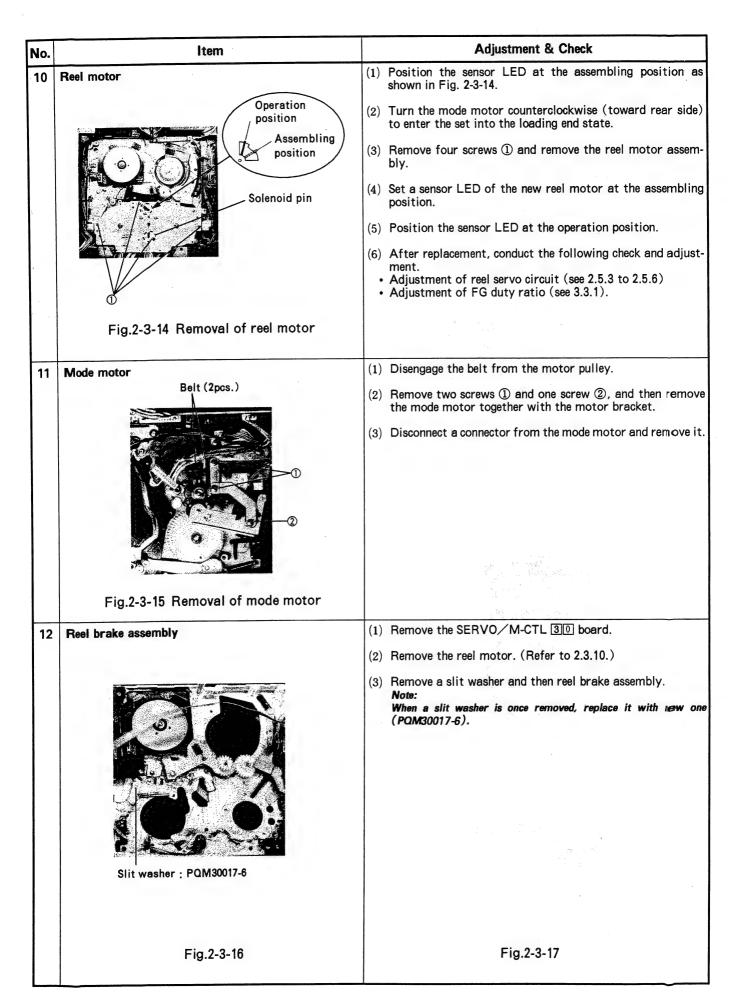
- (1) Connect the oscilloscope to TP101(:8F) on the 12 AV PRE/REC board and trigger it externally with signal of TP102(:7G) on the same board.
- (2) Play back the MHPE alignment tape while observing the waveform with turning the TRACKING VR.
- (3) When the waveform in the supply side shows such a tendency as shown in the figures, the drum lead is worn out and needs to replace.



Tracking (+)



Adjustment & Check Item No. (1) Remove the cassette housing assembly. (Section 2.3.1) Tension arm assembly (2) Open the SERVO / M-CTL board at an angle of 90(to stand it upright). (3) Remove a slit washer ①. (4) Remove a spring ② engaged between the tension arm assembly and the spring adjust assembly, and then lift the tension arm assembly upward to remove it. Slit washer ① Note: Replace the slit washer removed once with new one. (Part No. PQM30017) Fig.2-3-10 Tension arm assembly (bottom (5) Reassemble the tension arm assembly and its peripheral parts to the main deck in the reverse order of the disassembly. (6) After replacement, conduct the following check and adjust-Adjustment of tape transport system (see 2.7) (2) Adjustment of reel servo circuit (see 2.5) Spring 2 Fig.2-3-11 Tension arm assy (top view) Pinch roller arm assembly 8 Proceed to do the following work in the Assembly mode (see 2.4.1). (1) Take out the top-cover assembly. (2) Remove two screws ① and lift the pinch roller arm assembly upward to remove it. (3) When reinstalling, do it so as to position the cam of the rail pinch roller assembly on the rail of the solenoid bracket in the assembly mode. Fig.2-3-12 Removal of pinch roller arm assy (1) Take out the bottom-cover assembly. 9 Capstan motor (2) Open the M-CTL ∕ SERVO board so as to tilt ita t an angle of 90° (3) Remove the pinch roller assembly referring to 13 .8. (4) Remove three screws ① and disconnect all connectors, and then remove the capstan motor. (5) After replacement, conduct the adjustments & FG duty ratio and stop servo. (Refer to 3.3.1.) Fig.2-3-13 Removal of capstan motor



No. Item Adjustment & Check

13 Pole base assembly and loading arm assembly

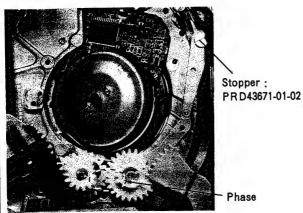


Fig.2-3-18 Installation of supply pole base assy

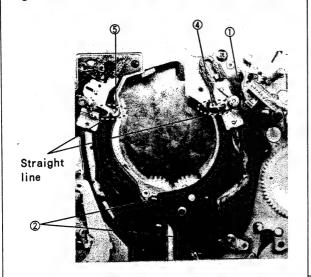


Fig.2-3-19 Removal of take-up pole base assy

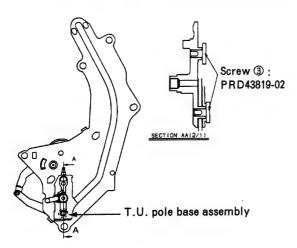
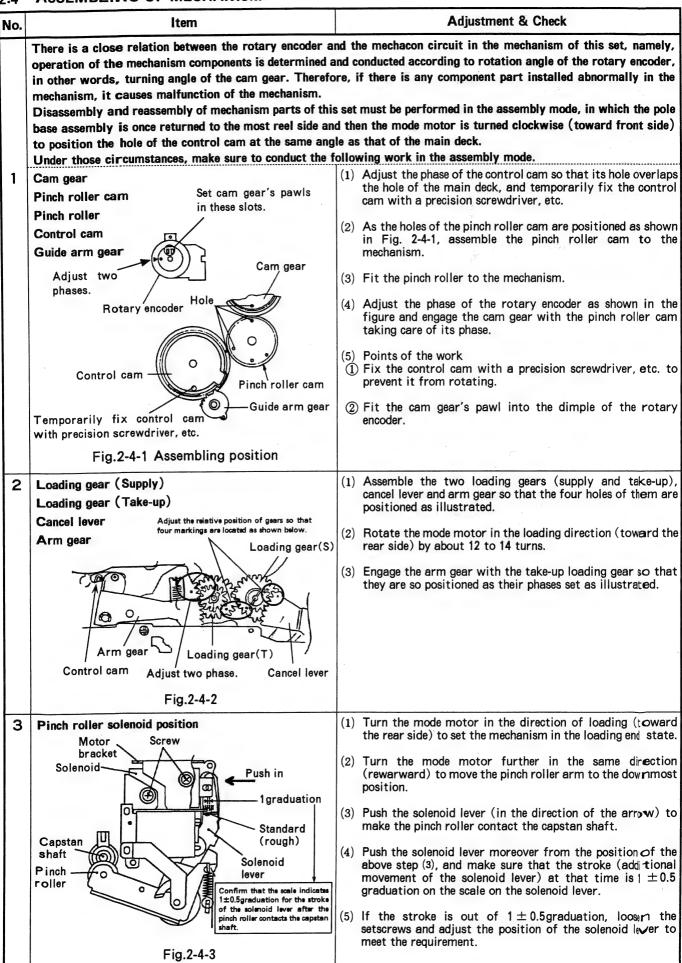


Fig.2-3-20 Removal of take-up pole base assy

- (1) Remove the drum assembly. (Refer to 2.3.5.)
- (2) Removal of supply pole base assembly. —
 1 Turn the loading motor counterclockwise to set the mechanism to the loading end position.
- 2 Remove the stopper and lift the pole base assembly to remove it. (Fig.2-3-18)
- (3) Removal of take-up pole base assembly. —1 Remove a screw ④.
- 2 Turn the mode motor in the loading direction (toward the rear side) to set the mechanism in a loading position that the slant pole is aligned with the previous position of the screw (4) in a straight line. (Fig.2-3-19)
- 3 Remove a screw ① and two screws ②, and remove the take-up loading assembly. (Fig.2-3-19)
- 4 Remove two screws ③ and lift the take-up pole base assembly upward to remove it. (Fig.2-3-20)
- (4) When reassembling, proceed as mentioned below.
 1 Align the supply slant pole with the screw (5) in a straight line. (Fig.2-3-19)
- 2 Set the take-up slant pole in the position mentioned in the above step (2), and reinstall the loading assembly to the mechanism.
- 3 Confirm that the supply slant pole and the take-up slant pole are aligned with the screws ④ and ⑤ in a straight line.
- (5) Reinstall the drum assembly.
- (6) Load the mechanism with a general recording tape, which you don't mind if gets damaged, and check the mechanism operation.
- (1) Removal of supply loading arm assembly -
- 1 Remove the reel motor.
- 2 Remove the END SENSOR board.
- 3 Remove the cancel lever. (slitt washer: PQM30017-12)
- 4 Remove the STOPPER retaining the supply pole base assembly to the loading arm.

 (At that time, pay attention to the collar inserted between the pole base assembly and the loading arm not to lose it.)
- 5 Disengage the pawl of the gear from the shaft, and remove the supply loading arm assembly.
- (2) Reinstallation of loading arm assembly -
- 1 Turn the mode motor to set the mechanism in the loading end state.
- 2 Engage the supply loading gear so that the phases of the take-up loading gear and the supply loading gear are adjusted as shown in the figure. (Fig.2-3-18)
- 3 Reassemble the cancel lever, the END SENSOR board and the reel motor to the mechanism.

2.4 ASSEMBLING OF MECHANISM



2.5 ADJUSTMENT OF REEL SERVO CIRCUIT

Note: The test point of D. FF output is TP102(:7G) on the AV PRE/REC board.

Adjustment & Check Item No.

When setting back the cassette torque meter, make sure to do it in the Search (×11) mode. Don't do it in the FF, REW or Reel Search mode, otherwise the cassette torque meter may be damaged.

If the SHIFT(+) or SHIFT(-) button is pressed in torque adjustment, the torque changes about 2 gr-cm every time it is pressed. If the cassette torque meter reaches the tape end or the tape beginning in the following adjustment, make a fresh start from

Test points and adjustment parts appearing in the following are located on the SERVO/M-CTL board unless otherwise specified.

Adjustment of tension sensor position - Positioning of tension sensor Move the tension sensor diagonally frontward Spacer at an angle of 45° while setting it so as to leave (t: 0.1 mm) 0.1 mm gap between the shaft and the sensor. TENSION ARM SHAFT **TENSION SENSOR** Move in the arrow direction and fix. 0.3~0.7mm Installation of tension sensor base Move the tension sensor base in the arrow direction and fix it at a point where the cutout (shaded portion in the

figure) of the main deck is exposed by 0.3 to 0.7 mm.

Apply screw sealant.

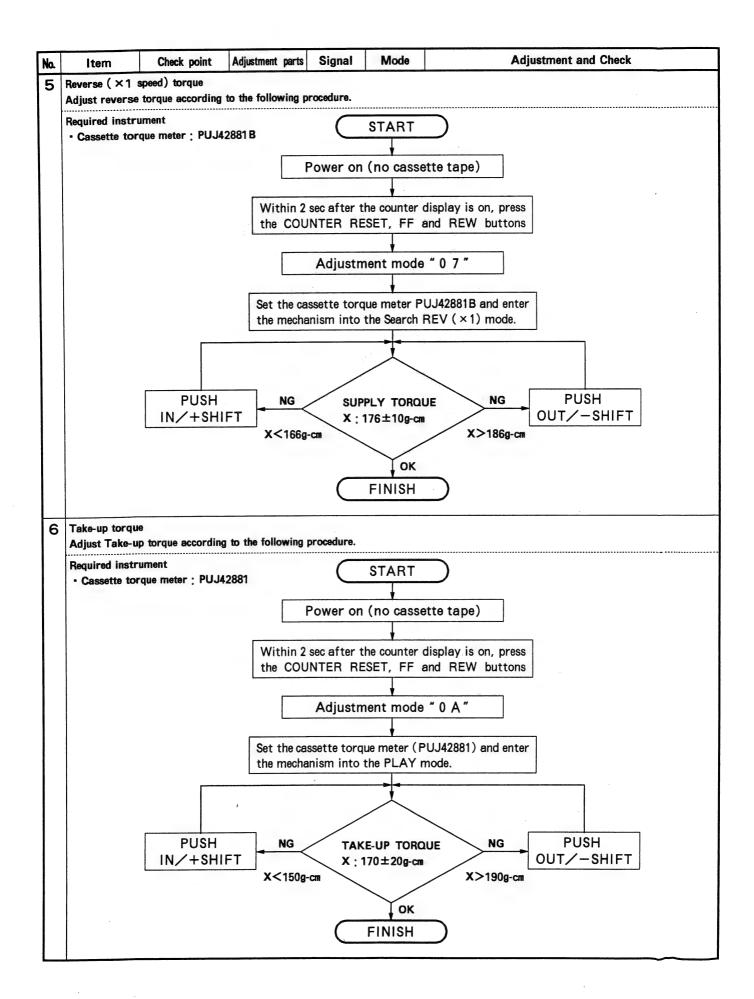
- (1) Required jigs:
 - Spacer (0.1 mm) or the earth plate (PRD44276) on the sub-deck.
- (2) Turn off the power switch and remove the cassette housing assembly.
- (3) Turn the mode motor counterclockwise (toward rear side) to set the mechanism in the loading end state.
- (4) Loosen the setscrew ① and adjust the tension sensor base position so that the its relative position to the cutout of the main deck is as shown in the figure. Then, tighten the setscrew 1). On fixing the tension sensor base, move it to the utmost end in the direction of the arrow.
- (5) Slightly loosen the setscrew 2.
- (6) Insert a spacer of 0.1 thick between the tension sensor and tension arm shaft as shown in the figure. Move the tension sensor in the diagonally frontward direction (as shown by the slant arrow) while adjusting the gap width to be 0.1 mm. Then, tighten the setscrew 2.
- (7) Apply screw sealant onto the setscrews ① and ②.
- (8) After the above adjustment, proceed to do the following adjustments.
- Adjustment of tension bias and gain (see 2.5.2)
- 1) Adjustment of tension plas and gain (See 2.5.2)
 2) Adjustment of back tension in play mode (see 2.5.3)
 3) Adjustment of reverse (×1 speed) torque (see 2.5.5)
- (9) When all of the above are over, reinstall the casset te housing to the mechanism.

Fig.2-5-1	Positioning	of tension	sensor

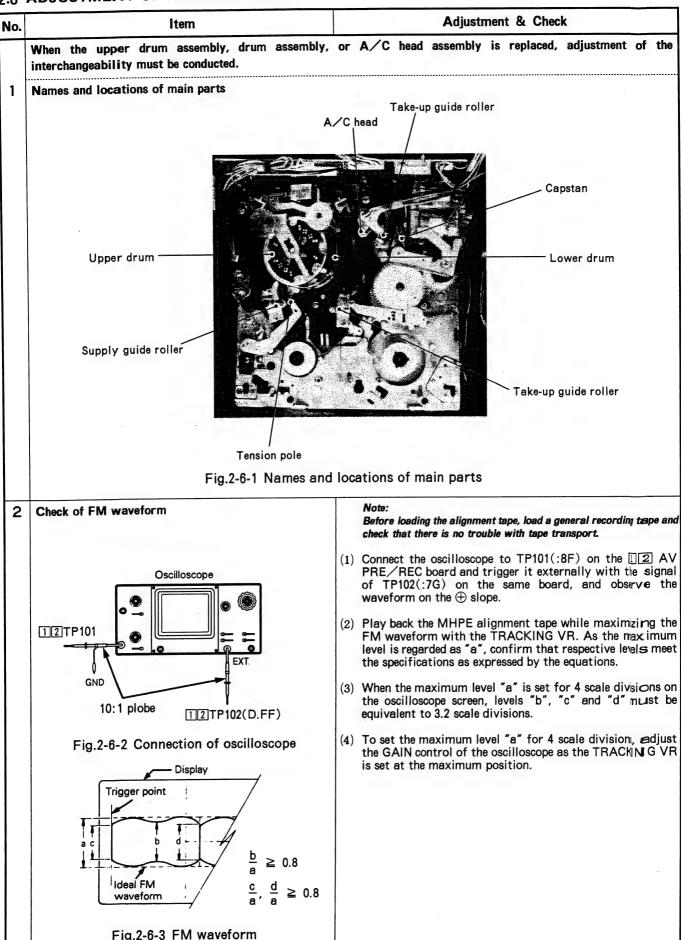
No.	Item	Check point	Adjustment parts	Signal	Mode	Adjustment and Check
2		TP22:14D (MCTL/SERVO) Supply roller-2 Tension Supply guide roller-1 TPGND TP22 TPGND TP22 TPGND TP22 TPGND TP23	guide Fig.2-5-2 Tension b TP21 R214 VRs on SERV		gain	 Turn the mode motor counterclockwise by hand to set the mechanism into the loading end state. Make sure that the tension arm movest of the limit and touches the guide roller. Adjust R222 to obtain 0.00 to 0.10 V as the output of TP22. Note: The test points and VRs can be seen if the side cover (mechanism deck side) is taken off. Utilizing the flat portion of the perallel check plate, align the supply guide rollers 1, 2 and tension pole in a straight line. Adjust R214 to obtain 1.75 to 1.95 V as the output of TP22.

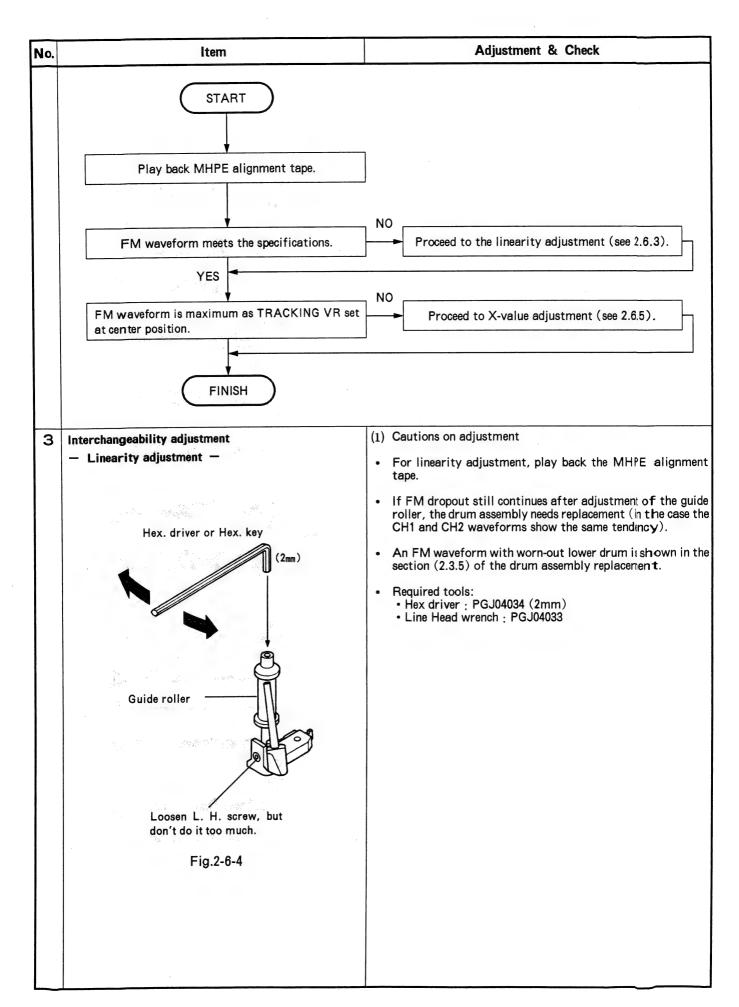
Note: The test point of D. FF output is TP102(:7G) on the AV PRE/REC board.

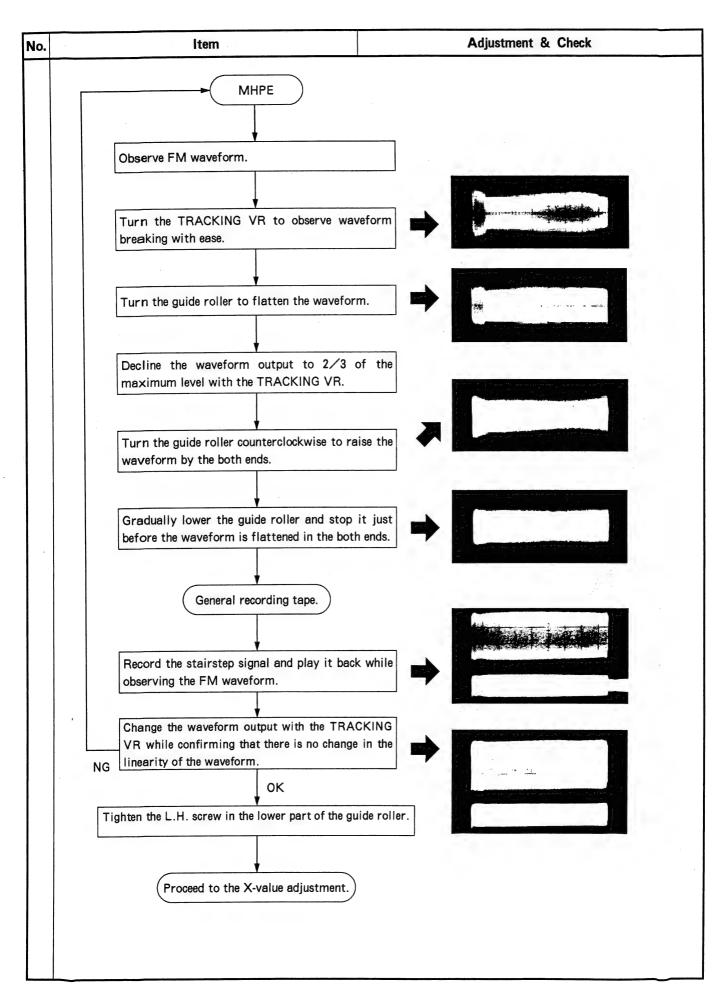
No.	Item	Check point	Adjustment parts	Signal	Mode	Adjustment and Check
3 1	Back tension in play mode	Cassette torque meter (PUJ42881) MODEL BR-S800	IN/+SHIFT button (up) OUT/-SHIFT button (down) BACK TEN 58±2 g-c	SION	adjut mode " 0 C"	 (1) Take the cassette tape out of the set and then turn off the power switch. (2) Within 2 sec after the counter display is on, press the COUNTER RESET, FF and REW buttons simultaneously and "00 00" appears in the counter display to indicate that the mechanism has entered the adjustment mode. (3) Connect a digital voltmeter to TP22 on the SERVO/M-CTL board. (4) Press the MENU or SET button to select the adjustment of "0C", which will appear in the counter display. (5) Set the cassette torque meter in the cassette housing and confirm that the back tension meets the specifications. (6) If not, adjust it again with the IN/+SHIFT (UP) or OUT/-SHIFT (DOWN) button. The following adjustments must be conducted when the
		TP22:14D (MCTL/SERVO)	Spring adjust lever	_	РВ	 The lolowing adjustments must be conducted when the spring of the tension arm is replaced. (7) Make sure that the voltage at TP22 is 1.75 to 1.95 V_{DC}. (PB mode) (8) If not, loosen the screw retaining the spring adjusting lever for the following adjustment. ① When voltage at TP22 is above 1.95 V_{DC}. Fine adjust the spring adjust lever with an ordinary screwdriver so as to move it slightly rearward. ② When voltage at TP22 is under 1.75 V_{DC}. Fine adjust the spring adjust lever with an ordinary screwdriver so as to move it slightly frontward. (9) Check the above steps (5), (6) and (7), and repeat the above adjustments until back tension meets the specific value.
4	Required instr	g torque according rument rque meter (PUJ42	Within 2 COUNTE	Pow sec after R RESET, Ad	justment m	er display is on, press the EW buttons simultaneously. Inde " 0 B " The mechanism into the Play mode. PUSH OUT / - SHIFT X>33g-cm OK



2.6 ADJUSTMENT OF INTERCHANGEABILITY







4 Adjustment of A/C head

If the A/C head is incorrectly positioned, it causes dropdown of audio output or deterioration in its S-to-N ratio, or misaligned servo resulting from failure in picking up control signals in the worst case when a recorded tape is playback.

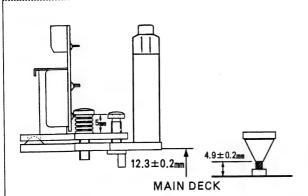


Fig.2-6-5 Adjustment of A/C head height

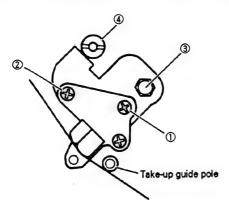


Fig.2-6-6

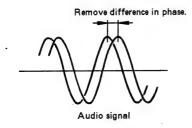


Fig.2-6-7

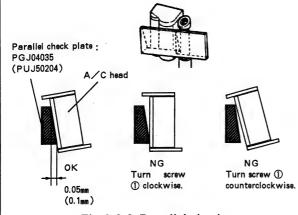


Fig.2-6-8 Parallel check

(1) Required jig

- Nut driver : 5.5mm
- Alignment tapes : MBAE-3,MHPE,MBAE
- Parallel check plates : PGJ04035(0.05), PUJ50204(0.1)

(2) Temporary check of A/C head height

(1) In the stage of tape transport check preparatory to A/C head adjustment, temporarily adjust the A/C head height to prevent the tape from getting damaged as well as to conduct the adjustment with ease.

(3) Tilt (forward bent) adjustment

- ① Adjust the setscrew ① so that the A/C head closely contacts the parallel check plate surface with a tilt equivalent to 0.05mm on the base line of the plate. If there is a space between them in the upper part, the tilt is small. In that event, tighten the setscrew ① to tilt the A/C head much more. On the other hand, if there is a space in the lower part, loosen the setscrew ① to decrease the A/C head in tilt.
- ② Check that the tape is not damaged and wrinkled at the lower flange of the take-up guide pole. If so, fine adjust the height of the take-up guide pole.

(4) Head height and azimuth adjustment

- ① Connect CH1 of the oscilloscope with TP1 on the N. AUDIO board while CH2 with the TP2 on the same board, and set the oscilloscope to the chop mode.
- ② Play back the MBAE-3 alignment tape while adjusting the A/C head height by turning the hex. nut ③ so as to minimize both output levels of CH1 and CH2. (Height adjustment)
- ③ Play back the MHPE alignment tape while adjusting the setscrew ② to match output waveforms of CH1and CH2 in the phase as well as to maximize output level of both the channels. (Azimuth adjustment)
- (4) Repeat the steps (2) and (3) alternately for finer adjustment.

(5) Azimuth check

- ① Connect CH1 of the oscilloscope with TP1 on the N. AUDIO board while CH2 with TP2 on the same board, and set the oscilloscope to the chop mode.
- ② Play back the MBAE alignment tape while confirming that there is no phase difference (less than 0.1mec) in the output waveforms of CH1 and CH2. If there is a phase difference more than 0.1msec, repeat the le ight and azimuth adjustment (4) above.

(6) A/C head parallel check

- ① With the parallel check plate (PUJ50204), make sure that the tilt of the A∕C head is less than 0.1mm on the base line of the check plate.
- ② If not, repeat the above adjustments (3) through (♠) until a satisfactory result is obtained.

Test points on N. AUDIO board with addresses

	BR-S800	BR-S5)0
TP1	6E	4A
TP2	11E	7 A

No. Item Adjustment & Check

5 X-value adjustment

If the X-value is maladjusted, it results in time lag between picture and normal sound when playing back a tape recorded by a set whose X-value is correctly adjusted.

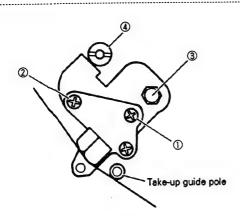


Fig.2-6-9

Adjust phases. (±1fieled)

1CH 2CH 2CH 1CH

1CH 1CH 1CH 112TP101(FM)

Fig.2-6-10 X-value adjustment

MONITOR OUT

· Synchronization of oscilloscope

- ① Set the oscilloscope's sweep time to 10msec.
- ② In the condition being synchronized with D. FF signal, turn the oscilloscope's HOLD OFF knob in the ⊕ direction to stabilize non-recorded portion.
- ③ Use the oscilloscope prove of the 10:1 ratio.

1) Required iia

Ordinary screwdriver (⊖)

· Alignment tapes : MBPE-X, MHPE

(2) X-value adjustment

- ① Connect CH1 of the oscilloscope with TP101(:8F) on the ①② AV PRE/REC board while connect CH2 with the AUDIO MONITOR terminal on the rear panel. Set the AUDIO MONITOR switch on the front panel to the NORM AUD-1/L position.
- ② Trigger the oscilloscope externally with signal of TP102(:7G) on the 12 AV PRE/REC board.
- ③ Play back a self-recorded tape while confirming that the FM waveform is maximum with the TRACKING VR set to the center position. If not, check to see if the tracking is correctly adjusted.

Note:

If not, fine adjust the tracking preset explained in the previous item, step (3).

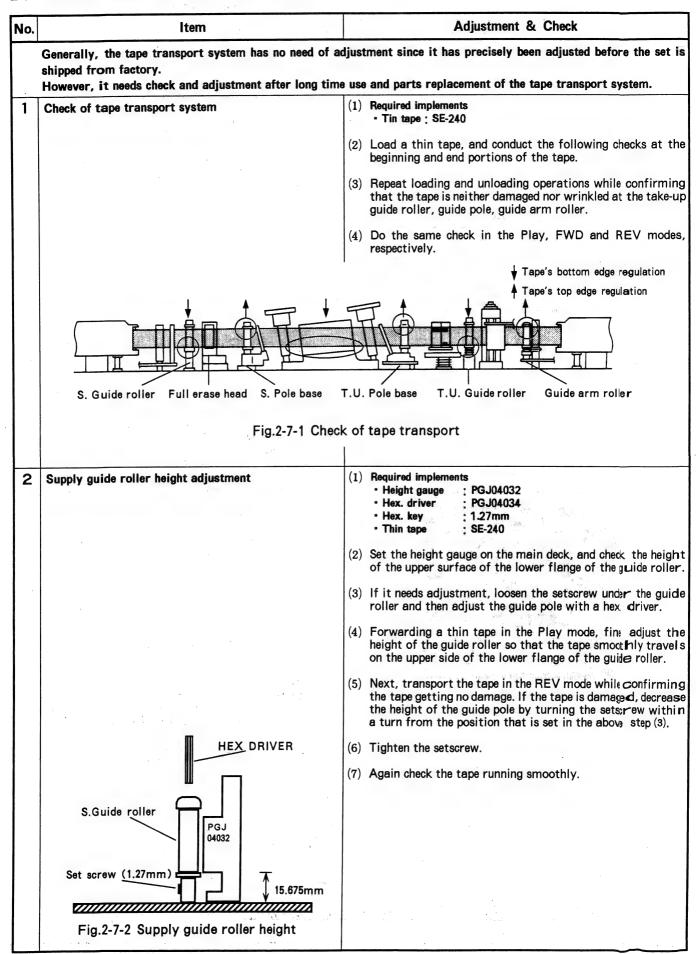
- 4 Set the TRACKING VR to the center position.
- (5) Play back the MBPE-X alignment tape.
- ⑥ Adjust the taper nut ④ to maximize the FM output as well as to match the non-recorded portions of AUDIO and FM outputs in the phase (±1 field).
- Play back the MHPE alignment tape while confirming that the FM waveform is maximum with the TRACKING VR set to the center position.
- (8) If the result of the above step (7) is unsatisfactory, sii de the A/C head to a point where the FM waveform is maximum near the point set in the above step (6).
- (9) Play back the MHPE alignment tape while confirming that the FM waveform is maximum with the TRACKING VR set to the center position.

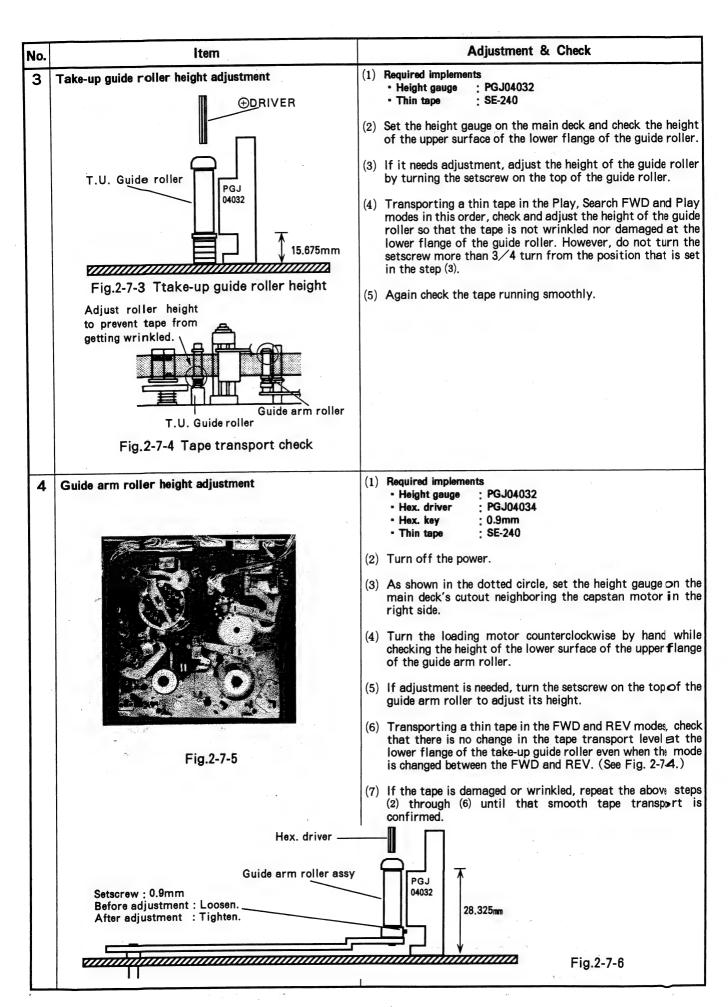
3) Tracking preset adjustment

- Take the cassette tape out of the set, and then turn off the power switch.
- ② Turn on the power switch again, and press the EJECT and STOP buttons simultaneously within 2 sec after the counter indicator is on.
- ③ When "OPEn" appears in the counter display, pr

 IN / +SHIFT button 8 times, and then "Tr-Adj" will appear
 in the counter display.
- 4 Set the TRACKING VR to the center click position.
- ⑤ Press the SET button to set adjustment data.
- ⑥ Press the IN/+SHIFT button repeatedly until "▶PEn" appears in the counter display.
- Press the MENU button.

2.7 ADJUSTMENT OF TAPE TRANSPORT SYSTEM





SECTION 3 ELECTRICAL ADJUSTMENT

3. 1 PRECAUTIONS

Before proceeding to any electrical adjustment, it is the first prerequisite to confirm that the objective item is out of order or of breakdown. Moreover, for parts and items that need correct mechanical adjustment prior to electrical adjustment, begin by confirming that they are exactly mechanically adjusted.

Make sure to start electrical adjustment 5 or more minutes after the power is turned on.

Before starting any adjustment, make sure to reset the MENU switch to the initial setting that was set at shipment. (See Section 7.) Then, if there is a direction to set the MENU switch specially for the adjustment item in the head of a page or the beginning of an adjustment item, change the setting of the MENU switch according to the direction.

3.1.1 Required tools and test instruments

- Frequency counter (sensitivity range between 10MHz or more and 100mV or less)
- Video signal generator (TG-7/2, Model 1411, or equivalent)
- Waveform monitor (1485R, or equivalent)
- Digital voltmeter (available for 1 mV_{pc} or under)
- Sweep signal generator (100kHz to 10MHz, Model-430P*1, or equivalent)
- Oscilloscope*2 (dual-trace type, available for 50MHz or more)
- Vectorscope (521A, or equivalent)
- TV monitor
- Audio tester

Besides the above-mentioned instruments, the following special instruments are needed.

- *1: VC-G30U/VC-G40U cable (optional) to supply Y/C443 output of the Model 430P to this set.
- *2: Use an oscilloscope probe of 10:1 ratio unless otherwise specified.

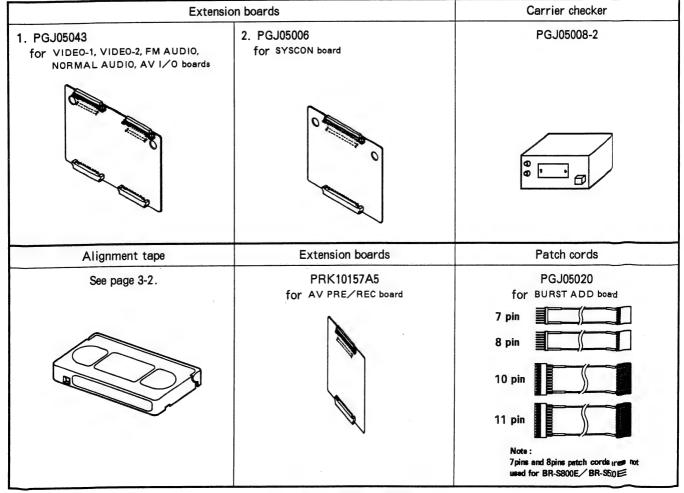


Fig.3-1-1 Required special implements

3.1.2 Specification of alignment tapes

-MHPE

Video signal	Audio signal	Application	Remark
VHS (SP mode) Stairstep	6kHz	•For check and adjustment of interchangeability. •For adjustment of PB switching point.	MH-2 stairstep signal is substitutable.

•MHVE-2

Video signal	Audio signal	Application	Remark
VHS (SP mode) Color bar	_	•For check and adjustment of video PB circuit.	MH-2 color bars signal is substitutable.

-MBAE(MHAE)

Γ	Video signal	Audio signal	Application	Remark
С	TL signal only	1kHz(0dB)	•For check and adjustment of audio PB circuit.	MH-1 1 kHz signal is substitutable.

•MH-8

No.	Play-Back time	Video signal	Audio signal	Application
1	2 minutes	Color sweep	400Hz(-20dB)	•For check and adjustment of frequency response of video PB circuit.
2	2 minutes	Color sweep	100Hz(-20dB)	•For check and adjustment of frequency response of audio
3	2 minutes	Color sweep	10kHz(-20dB)	PB circuit.
4	4 minutes	Color sweep	-	

•MH-F8

No.	Play-Back time	Video signal	Audio signal	Application	
1	5 minutes	-	Carrier only	For check and adjustment of interchangeability of mechanism.	
2	5 minutes	Stairstep	Carrier only	To the ck and adjustment of interesting eability of media mism.	
3	5 minutes	_	1kHz (±50kHz DEV)	For check and adjustment of FM audio PB circuit.	

•MHVE-2H

Video signal	Audio signal	Application	Remark
S-VHS (SP mode) Color bar	_	For check and adjustment of video PB circuit.	MH-2 SP mode color bar signal is subsit utable.

-MBVE-3H

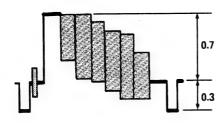
Video signal	Audio signal	Application	Remark
S-VHS (SP mode) Sweep signal	_	•For check and adjustment of video frequency response.	MHVE-3H is renamed.

-MBAFE-2

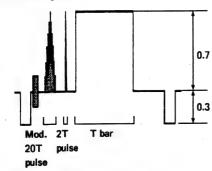
Video signal	Audio signal	Application	Remark
Carrier only (4MHz)	1KHz (±50KHz DEV)	•For check and adjustment of FM audio PB circuit.	-

3.1.3 Signals required for video system adjustment

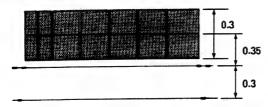
(1) EBU 75% color bar



(2) Pulse & bar signal

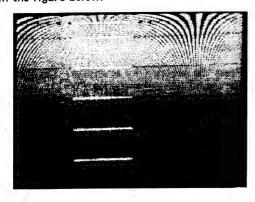


(3) Video sweep signal (100k to 5MHz)



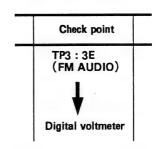
To input this signal through the LINE IN terminal, make sure to use a sweep signal well-balanced in H. correlation in order to avoid malfunction of the comb filters.

For a reference, a sweep signal having a good H. correlation shows such a clear pattern as neighboring black and white lines are the same in the width and interval on the monitor screen as shown in the figure below.



3.1.4 Explanation of main columns in check and adjustment table.

(1) "Check Point" column



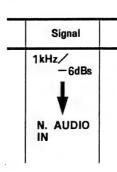
The Check Point column indicates measuring instruments to be used and test points to connect measuring instruments (use and connection of oscilloscope are omitted).

Symbol (consisting of numeral and alphabet) following the symbol of a test point and colon indicates a section of the specified board where the test point is located.

In case of the above sample, TP3 is located in the section 3E of the FM AUDIO board, and TP3 should be connected with a digital voltmeter.

When a terminal on the rear board is indicated in the Check Point column, connect a measuring instrument directly to the terminal

(2) "Signal" column



The Signal column indicates signals to input and terminals to input the signal. (When no input terminal is indicated, input signal through the LINE IN terminal.)

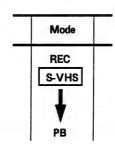
Vote:

When the Y/C443 terminal is specified as an input terminal, set the VIDEO INPUT switch on the front panel to the Y/C443 position.

In case of the above sample, input a 1kHz, — 6dBs signal through the NORMAL AUDIO INPUT terminal.

When adjustment requires to play back an alignment tape to supply input signal, the part number of a required alignment tape is indicated in this column.

(3) "Mode" column



The Mode column indicates operation modes for adjustment.

The above sample indicates to play back a tape that is recorded in the S-VHS mode for adjustnent.

When Adjust mode "××" is appearing in this "Mode" column, enter the set into the "××" mode s specified, since the BR-S800E/EP-S500E is provided with some automatic adjustment modes for electrical adjustment.

For detail of the automatic adjustment mode, refer to the section 7.5.

3. 2 POWER SUPPLY CIRCUIT

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	Regulator voltage	TP2 (REGULATOR)	R74 (REGULATOR)	_	REC	(1) Adjust R74 so that voltage at TP2 is 5.10±0.05V _{pc} . Note: For adjusting the BR-\$500E in this item, play back the MHVE-2H alignment tape since it thas no INPUT terminal.
	·	TP1 (REGULATOR)	R41 (REGULATOR)	_	REC	(1) Adjust R41 so that voltage at TP1 is 12.10±0.05V _{pc} . Note: For adjusting the BR-\$500E in this item, play back the MHVE-2H alignment tape since it thas no INPUT terminal.

3. 3 SERVO CIRCUIT

• The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	Duty factors of FG pulses & Stop servo (automatic adjustment)		<u>-</u>		Adjust mode " 0 4 "	 (1) After turning on the power (within 2 sec), press the FF, REW and COUNTER RESET buttons simultaneously to enter the set into adjustment mode. (2) Press the MENU (+) or SET (−) button to set for the adjustment mode No. "04". (3) Press the SHIFT(+) or SHIFT(−) button and the reel motor, capstan motor and drum motor take turns at rotating to perform automatic adjustment. (4) With completion of the automatic adjustment, every motor stops and "End" appears in the counter display.
2	PB Switching point	TRACKING METER	TRACKING VR	MHPE	Adjust mode "0 F"	 After turning on the power (within 2 set), press the FF, REW and COUNTER RESET buttons simultaneously to enter the set into adjustment mode. Press the MENU (+) or SET (-) button to set for the adjustment mode No. "0F". Play back the MHPE alignment tape while adjusting the TRACKING VR so that the TRACKING METER reads the signal level to the maxin sum. Press the SHIFT(+) or SHIFT(-) but on and automatic adjustment starts. With completion of the automatic adjust ment, every motor stops and "End" appears in the counter display.

3. 4 AUDIO CIRCUIT

3.4.1 Manual adjustment

• For adjustment of the audio circuit, select "OFF(0)" for setting the "LIMITER" of the MENU switch No. 202.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	Hi-Fi audio carrier frequency	TP1:7A (FM AUDIO) Trequency counter	R57 : 7A (FM AUDIO)	No signal input	REC VHS	(1) Set the MENU switch No. 200 to "ON" position.(2) Adjust R57 to obtain 1.400 MHz as the frequency of TP1 signal.
		L-ch ca	arrier frequency :	: 1.400±0.0	02MHz	
		TP2: 7A (FM AUDIO) Frequency	R58 : 8A (FM AUDIO)	No signal input	REC VHS	(3) Adjust R58 to obtain 1.800 MHz as the frequency of TP2 signal.
		R-ch c	arrier frequency	: 1.800±0.0	002MHz	

2 Conduct automatic adjustment of the AUDIO circuit. (See the following page for detail.)

To conduct automatic adjustment of the audio circuit, proceed as follows.

- After turning on the power (within 2 sec), press the FF, REW and COUNTER RESET buttons at the same time.
- "00 00" appears in the counter display.
- Insert a required tape.
- Press the MENU (+) or SET (-) button to select an automatic adjustment mode by number.
- Press the COUNTER RESET button and automatic adjustment starts with indication of "P" in the counter display.
- As the automatic adjustment finishes, the tape is automatically ejected and "End" appears in the counter display.

 Note: When "Error" is displayed, no adjustment is performed and the previous adjustment data is recovered.

3 Hi-Fi AUDIO LEVEL METER	HiFi AUDIO OUT (600Ω terminator) Audio level meter	R71:3G (Lch) R72:2G (Rch) (AV I/O)	1kHz∕ −6dBs ↓ HiFi AUDIO IN	E-E	 (1) With the HiFi REC LEVEL VR adjust the output from the HiFi AUDIO output terminal to be -6.0 (±0.3)dBs. (2) Set the AUDIO MONITOR switch to the HiFi position. (3) Set the METER SELECT switch to the AUD-2/R position. (4) Adjust R71 (for L-ch) and R72 (for F-ch) so that the AUDIO LEVEL METER reads 0.0/B as viewed from the right front. Note: For adjusting the BR-\$500E in this item, play back the alignment tape MBAFE-2 or the 1kHz segment of MH-F8 tape.

3.4.2 Automatic adjustment

• For adjustment of the audio circuit, select "OFF(0)" for setting the "LIMITER" of the MENU switch No. 202.

lo. Item	Check point	Adjust- ment	Tape "A"	Mode "B"	Check and Adjustment
1 Normal Audio PB level	-		MBAE	Adjust mode "18"	 (1) After turning on the power (within 2 sec), press the FF, REW and COUNTER RESET buttons simultaneously to enter the set into adjustment mode. (2) Load the set with the alignment tape and press the MENU(+)
2 Normal Audio PB frequency response	_	_	MH-8	Adjust mode "19"	or SET(-) button to select the adjustment mode "B". (3) Press the COUNTER RESET button and automatic adjustment starts with indication of "P" in the counter display.
3 Hi-Fi Audio PB level	-	_	MH-F8 (1kHz) or MBAFE-2	Adjust mode "1 A"	(4) With completion of the automatic adjustment, the tape is automatically ejected and "End" appears in the counter display.
4* BR-S800E Normal Audio REC / PB level	_	_	S-VHS DC	Adjust mode "1 B" S-VHS	 After turning on the power (within 2 sec), press the FF, REW and COUNTER RESET buttons simultaneously to enter the set into adjustment mode. Load the set with an S-VHS cassette tape and press the MENU(+) or SET(-) button to select the adjustment mode No. "1B". Press the COUNTER RESET button. With completion of the automatic adjustment, the tape is automatically ejected and "End" appears in the counter display.
			VHS DC	Adjust mode "1 B" VHS	(5) Change the tape with a VHS cassette tape and proceed to do the same adjustment for the VHS mode as for the S-VHS mode carried out in the above steps.
5* BR-S800E Normal Audio frequency response (REC / PB)		_	S-VHS DC	Adjust mode "1 C" S-VHS	 After turning on the power (within 2 sec), press the FF, REW and COUNTER RESET buttons simultaneously to enter the set into adjustment mode. Load the set with an S-VHS cassette tape and press the MENU(+) or SET(-) button to select the adjustment mode No. "1C". Press the COUNTER RESET button. With completion of the automatic adjustment, the tape is automatically ejected and "End" appears in the counter display.
			VHS DC	Adjust mode "1 C" VHS	(5) Change the tape with a VHS cassette tape and proceed to do the same adjustment for the VHS mode as for the S-VHS mode carried out in the above steps.
6* BR-S800E HiFi Normal Audio REC / PB level & EE level	_	-	S-VHS DC	Adjust mode "1 D" S-VHS	 After turning on the power (within 2 sec), press the FF, REW and COUNTER RESET buttons simultaneously to in ter the set into adjustment mode. Load the set with an S-VHS cassette tape and press the MENU(+) or SET(-) button to select the adjustment mode No. "1D". Press the COUNTER RESET button. With completion of the automatic adjustment, the tape is automatically ejected and "End" appears in the counter display.
			VHS DC	Adjust mode "1 D"	(5) Change the tape with a VHS cassette tape and proced to do the same adjustment for the VHS mode as for the S-VHS mode carried out in the above steps.

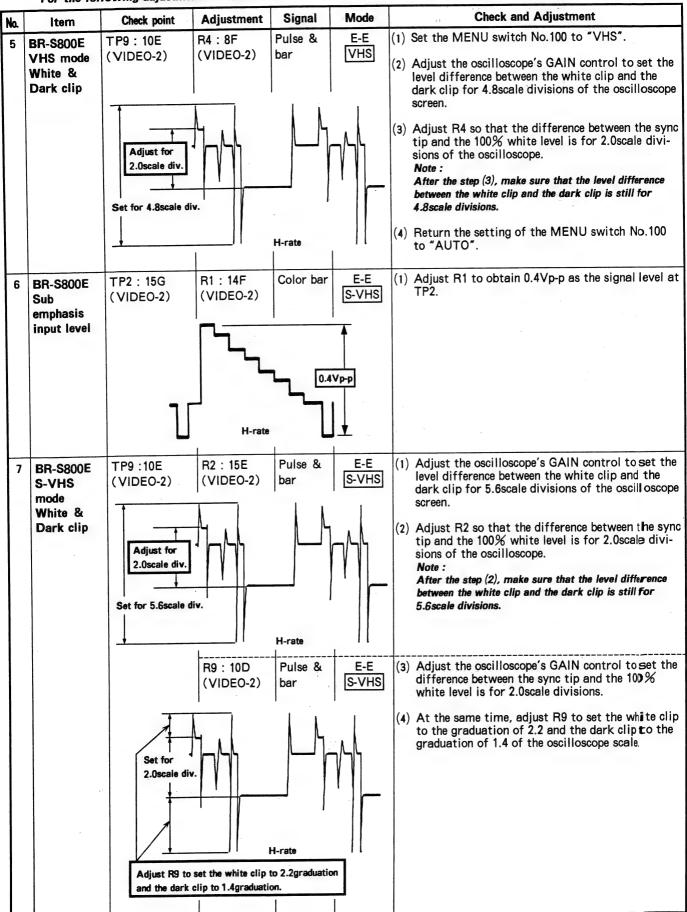
^{*:} Automatic adjustments of the above items No. 4, 5, 6 are provided for the recording system of the audio circuit. Although the above description is given to individual adjustment procedures of the those items, they can undergo automatic adjustment together with the adjustment mode No. "1 E" is selected. (However, adjustments for the VHS and S-VHS modes must be conducted individually.)

3. 5 VIDEO CIRCUIT

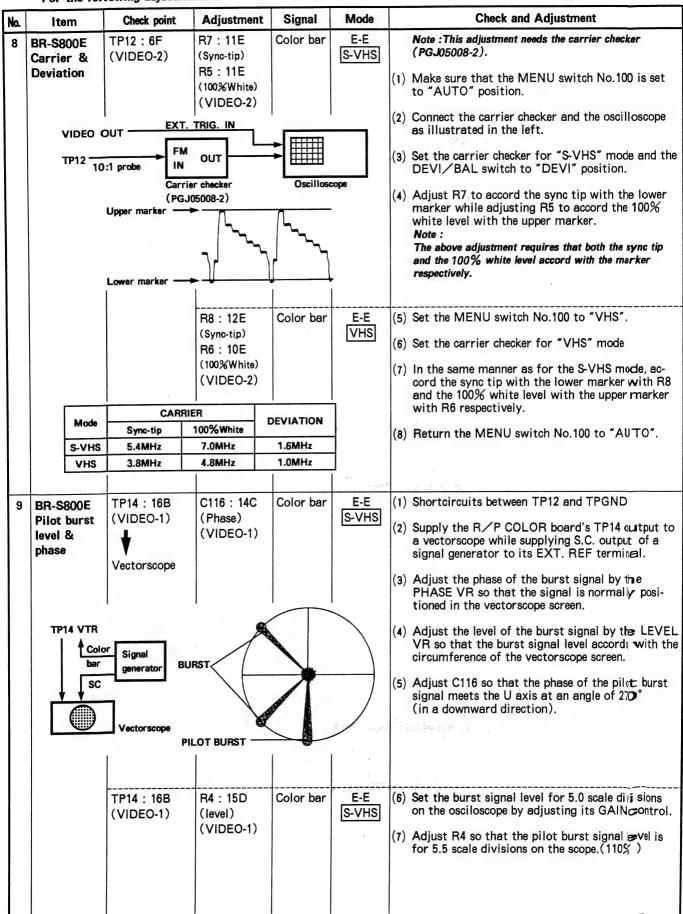
- The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
 For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	vcxo	TP9: 14D (VIDEO-1)	C137 : 14D (VIDEO-1)	MHVE-2H	РВ	(1) Adjust C137 to obtain 4.433619MHz as the frequency of TP9's signal.
		Frequency counter	TP4 : 4	.433619MHz	±10Hz	
2	BR-S800E AGC gain level	VIDEO OUT (75Ω terminator)	R1:8G (VIDEO-1)	Color bar Y/C443 IN	E-E S-VHS	 Set the VIDEO INPUT switch to the Y/C443 position. Adjust R1 so that output level of the VIDEO OUT terminals is 1.0Vp-p. Return the VIDEO INPUT switch to the "LINE" position.
3	BR-S800E COMB filter level	VIDEO OUT (75Ω terminator)	R3:6G (VIDEO-1)	Color bar	E-E S-VHS	(1) Adjust R3 so that output level of the VIDEO OUT terminal is 1.0Vp-p.
		VIDEO OUT (75Ω terminator) Vectorscope Utilizing the radii	R2:6G (VIDEO-1)	Color bar	E-E S-VHS	 (2) Input the signal directly to the vectorsope. While adjusting the GAIN control so that the burst level crosses the scope's circumference. (3) Next, connect the vectorscope to the VIDEO OUT terminal and input color bars signal through the VIDEO IN terminal. (4) Adjust R2 to equalize level of the luminous point of the burst signal with the level of thereference color bar signal.
4	BR-S800E 321fH	TP17: 15D Degital voltmeter	input signal level C150 : 15C (VIDEO-1)	MHVE-2H	STOP PB	 (1) Measure DC voltage at TP17 and take to te of DC level as "A". (STOP mode) (2) Play back the alignment tape MHVE-2H. (3) Adjust C150 to equalize DC level with the level of "A".
	BR-S500E 321fH	TP17: 15D Degital voltmeter	C150 : 15C (VIDEO-1)	MHVE-2H 7: 3.20V _∞	РВ	(1) Adjust C150 so that V_{DC} at TP17 is 3.20 V_{DC} .

- The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
- For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".



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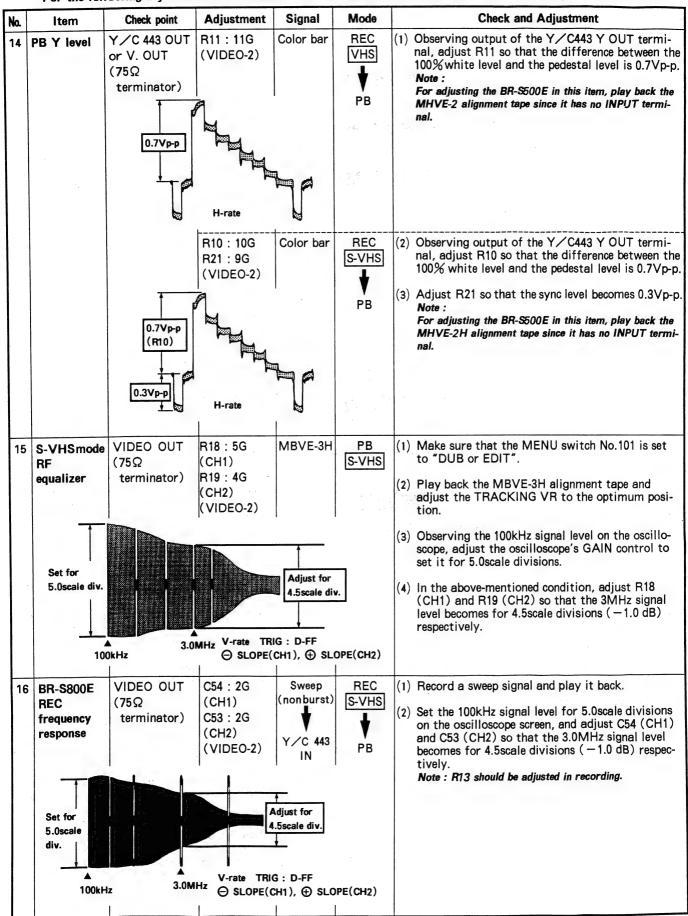
- The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
 For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
10	YNR NC balance (DOC Y level)	TP8: 10F (VIDEO-2)	R3:15D (VIDEO-2)	MHVE-2H	PB	Note: If this item is extremely maladjusted,it may cause black or white noise in video dropout portions. (1) Adjust R8 to minimize the level of TP8's waveform by the portion shown in the figure.
	OUT TP8		V-rate		Minimum	
11	BR-S800E REC FM level	TP12 : 6F (VIDEO-2)	R14:6B (VIDEO-2)	Color bar	REC VHS	(1) Adjust R14 to obtain 440mVp-p as the level of TP12's FM waveform.
		Adjust for		D-FF OSLOPE(CH	an)	
			R12 :7C (VIDEO-2)	⊕SLOPE(CH	REC S-VHS	(1) Adjust R12 to obtain 470mVp-p as the level of TP12's FM waveform.
		Adjust for 470mVp-		D-FF OSLOPE(CH + SLOPE(CH	11)	
				⊕SLOPE(CF	12)	

- The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
 For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
12	Item BR-S800E REC color level	TP18 : 4C (VIDEO-2) Set for 4.0 visions whing back M)scale di-	MHVE-2H	PB	Check and Adjustment (1) Play back the MHVE-2H alignment tape. Note: Set the TRACKING VR to the optimum position. (2) Adjust the GAIN control of the oscilloscope to set color level at TP5 for 4.0scale divisions of the oscilloscope. Note: When there is a level difference between CH1 and CH2, this adjustment should be based on the channel whose playback level of a self-recorded signal is higher than the other. (3) Record color bars signal and play it back. Set the TRACKING VR to the center position. (4) Adjust R13 so that output level at TP18 becomes for 5.0scale divisions on the oscilloscope (+2.0db to the alignment tape). Note: R13 should be adjusted in recording. Counterclockwise
			hile play-	tana V-1 a	PB te G: D-FF	turning of R13 increases the level. (5) Play back the MHVE-2 alignment tape. Note: Set the TRACKING VR to the optimum position. (6) Adjust the GAIN control of the oscilloscope to set color level at TP18 for 4.0scale divisions of the oscilloscope. Note: When there is a level difference between CH1 and CH2 this adjustment should be based on the channel whose playback level of a self-recorded signal is higher than the other.
			R15 : 14C (VIDEO-2)	Color bar	REC VHS PB	 (7) Record color bars signal and play it back. Set the TRACKING VR to the center position. (8) Adjust R15 so that output level at TP18 becomes for 3.6scale divisions on the oscilloscope (-1.0dito the alignment tape). Note: R15 should be adjusted in recording. Counterclockwise turning of R15 increases the level.
13	Tracking meter	TRACKING METER	R20 : 4F (VIDEO-2)	Color bar	REC S-VHS PB	 Set the METER SELECT switch to "TRACKING" and make sure that the TRACKING VR is set to the center click position. Record a color bars signal and play it back. Adjust R20 so that the pointer of the TRACKING METER indicates 0 as viewed from the right from Note: For adjusting the BR-S500E in this item, record a color bars signal by the BR-S800E and play it back by the BR-S500E since the latter has equipped with no INPUT terminal. Moreover, make sure to set the TRACKING VR to an optimum position.

- The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
- For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".



• The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
• For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".

la.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
7	VHS mode RF equalizer Set for 5.0scale div.	VIDEO OUT (75Ω terminator)	R16: 4G (CH1) R17: 3G (CH2) (VIDEO-2) Adjust 4.0sca	le div.	PB D-FF DPE(CH1), DPE(CH2)	 Make sure that the MENU switch No.101 is set to "DUB or EDIT". Record a sweep signal and play it back. Adjust the GAIN control of the oscilloscope to set the 100kHz signal level for 5.0scale divisions on the oscilloscope screen. In the above condition, adjust R16 (CH1) and R17 (CH2) so that the 2MHz signal level is for 4.0scale divisions (-2.0dB) respectively. Note:
18	AFC	TP501 (BURST ADD) Trequency counter		7.812kHz±1	E-E	(1) Adjust R503 to obtain 7.812±0.100kHz as the frequency of TP501's signal.
19	ΔΥ	TP23 : 12G (VIDEO-1)	R5 : 7B (VIDEO-1)	Color bar	REC S-VHS PB	(1) Minimize the level of TP23 signal with R5. Note: When the BR-S500 needs this adjustment, play back the alignment tape MHVE-2H since it is equipped with no INPUT terminal.
20	CNR	TP20 : 11G (VIDEO-1)	R6: 10G R7: 10G (VIDEO-1)	Color bar	REC S-VHS PB	 Make sure that the MENU switch No.101 is set to "OFF(PB)". Adjust R6 and R7 to minimize signal level (leak age of color component) at TP20. After the adjustment return MENU switch No.101 is set to "DUB or EDIT". Note: When the BR-S500 needs this adjustment, play back to alignment tape MHVE-2H since it is equipped with no INPUT terminal.
21	Colle in the in the	VIDEO OUT (75Ω terminator) Vectorscope tet luminescent spots center of waveform center of vectorscop R11 and R12.	R11: 13G R12: 14G (VIDEO-1)	MHVE-2H	REC S-VHS PB	 (1) Connect the vectorscope to the VIDEO OUT terminal. (2) Adjust R11 and R12 alternately to collect luminescent spots appearing in the center of the waveform in the center of the vectorscope screen. Note: Without signal input to the vectorscope, make sure the every luminous spot is located in the center of the vectorscope screen. If there is aluminous point coming off the center without input signal, adjust the VR of the vectorscope to position it in the center of the screen beforehand.

- The test point of D-F.F. output is TP102(:7G) on the 12 AV PRE/REC board.
 For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
22	PB Y ∕ C delay	Y/C 443 OUT or V. OUT (75Ω termina- tor)	R8: 12G (VIDEO-1)	Pulse & bar	REC S-VHS PB	 Mix output signals of the Y/C443 Y OUT and the Y/C443 C OUT terminals in the oscilloscope which is triggered by the output signal of the Y OUT terminal. Record pulse & bar signal and play it back while adjusting R201 to symmetrize the modulated 20T pulse in the bottom. Note: For adjusting the BR-S500E in this item, record a pulse
	٠.	ı	Flat or symmetri	ic		& bar signal by the BR-S800E and play it back by the BR-S500E since the latter has no INPUT terminal.
23	Color (burst) level & phase	VIDEO OUT (75Ω terminator) Vectorscope	R13 : 12G (burst) (VIDEO-1)	Color bar	REC S-VHS PB	 Input the color bar signal directly to the vectorscope. While adjusting the GAIN control so that the burst level crosses the scope's circumference. Next, connect the vectorscope to the VIDEO OUT terminal and input color bars signal through the VIDEO IN terminal.
	vectorscope ence as a ru equalize the of the self-ro	radius of the screen's circumfer- ler, adjust R13 to playback burst level acorded signal with rel of the directly pars signal.				(3) Record a color bars signal and play it back. (4) Adjust R13 to equalize level of the luminous point of the burst signal with the level of the reference color bar signal. Note: For adjusting the BR-S500E in this item, play back the MHVE-2H alignment tape since it has equipped with no INPUT terminal.
	775"A. YL. 175"A.	R Me	R10: 13G (level) R9: 15G (phase) (VIDEO-1)	Color bar	REC S-VHS PB	 (5) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. (6) Alternately adjust R10 (LEVEL) and R9 (PHASE) to position the luminescent spot of the magenta in the mark on the vectorscope screen. Note:
	6	Cr B mg	Alternately adjusted in the H man	minescent		For adjusting the BR-S500E in this item, play back the MHVE-2H alignment tape since it has equipped with no INPUT terminal.
24	ADD burst	VIDEO OUT (75Ω terminator)	R502 (level) R501 (phase) (BURST ADD)	Color bar	REC S-VHS PB	 Record the color bar signal and play it back Adjust the GAIN VR and PHASE VR of the vectorscope to position the luminous spots of the burst signal on the circumference of the vectorscope screen.
	equali: nous p signal	Vectorscope t R502 and R501 to ze level of the lumi- point of the burst with the level of DD burst signal.				 (3) Adjust the phase and the level of the ADD burst signal with R502 and R501 so that they the same as those of the burst signal. (4) If there is a level difference in the ADD burst signal, the adjustment should be performed based on the channel having the higher level.

- The test point of D-F.F. output is TP102(:7G) on the 112 AV PRE/REC board.
 For the following adjustments of the video circuit, set the menu switch No.101(EDIT SELECT) to "DUB or EDIT".

No.	Item	Check point	Adjustment	Signal	Mode		Check and Adjustment
25	Slow tracking	VIDEO OUT (75Ω terminator)	TRACKING VR	Color bar	REC S-VHS) '	Turn off the power switch. Depress the FF, REW and COUNTER RESET button at the same time while turning on the power switch again.
		TV monitor		·	PB V	(3)	Press the MENU switch to get "03 00" appearing in the counter display.
					SEARCH (×1/30)		Record a color bars signal, and play it back in the step slow mode at the speed of $X1/30 \ (+0.03)$.
						(5)	Press the +SHIFT button and adjust the TRACKING VR to eliminate noise from the monitor screen.
							Press the AUTO MODE button and confirm that "03 End" is appearing in the counter display.
						(7)	Turn off the power switch. Note: For adjusting the BR-S500E in this item, play back the MHPE alignment tape since it has no INPUT terminal.
26	V lock	VIDEO OUT	TRACKING	Color bar	REC S-VHS	(1)	Set the MENU switch No.337 to "STEP".
		(75Ω terminator) ♣	VR		*	(2)	Record a color bar signal and play it tack in the Still mode.
		TV monitor			PB ♦	(3)	Observing the still picture on the monitor screen, adjust the TRACKING VR to minimize fluctuation of the picture.
					STILL	(4)	Enter the set into the Stop mode. Note: For adjusting the BR-S500E in this item, play back the MHVE-2H alignment tape since ithas no INPUT terminal.
27	Onscreen	MONI OUT	C220	Color bar	E-E	(1)	Set the COUNTER switch to "CTL" position.
		TV monitor	(AV I/O)			(2)	Connect the TV monitor to the MONITOR OUT terminal.
						(3)	Adjust C220 so that this colon (:) is tositioned in the midpoint between the red and mage nta bars.
							Note : For adjusting the BR-S500E in this term, play back the MHVE-2H alignment tape since ithas no
		CTL 0:00:00:	(:) is midpo	t so that the positioned bint between agenta bar	in the n the red		INPUT terminal.
		TP205 (AV I/O)	C226 (AV I/O)	·-	E-E	(1)	Take the cassette tape out of the set and then turn off the power switch.
		Frequency	TPOOR 47	7044100	058411	(2)	Turn on the power switch again, and pess the EJECT and STOP buttons simultaneously within 2sec after the counter indicator is on.
		counter	11205 : 17.	7314±0.00	USWINZ	(3)	When "OPEn" appears in the counter dspl ay, press the IN/+SHIFT button 11 time, and then "On-Adj" will appear in the counter dipla y.
							Adjust C226 to obtain 17.7314MHz as he f requency of TP205's signal.

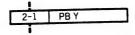
SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

1. Expression of connector

Connector is expressed in two ways.

1) The following illustrates 'CN2 pin 1' for example.



2) The following illustrates 'CN1 pins 1 and 2'.



2. Expression of wiring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

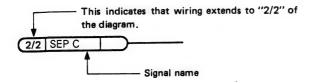
1) Circuit diagram divided into two or more sections:

Board No.	Board Name	Number of divided sections
10	VIDEO-1	2 (1/2~2/2)
11	VIDEO-2	2 (1/2~2/2)
12	AV PRE/REC	2 (1/2~2/2)
20	FM AUDIO	3 (1/3~3/3)
21	NORMAL AUDIO (BR-S800)	4 (1/4~4/4)
23	AV I/O	2 (1/3~3/3)
30	M-CTL/SERVO	3 (1/2~2/2)
_	OVERALL	2 (1/2~2/2)

2) Indication of wiring which extends to another section:

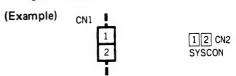
(Example)

On the "1/2" diagram of VIDEO-1 board, such an indication as the following is found on the "SEP C" signal line.



In the above case, the end of the wiring is connected to the "SEP C" on the 2nd section of the diagram.

3. Wiring of connector



In the above example, CN1 is connected with CN2 on 12 SYSCON board.

4. Signal flow on the diagram

The following arrow marks indicate the specified signal paths respectively.

: RECORDING or EE signal path

: PLAYBACK signal path
: REC/PLAY signal path

5. Measurement of voltage and waveform

1) Voltage

Measured by digital voltmeter in REC or PB mode. In the "symbol No." column of the DC voltage tables, there are some parts indicated with such symbolsas "1A", "2B", etc. Each of those symbols indicates a section of the board which the part is located in. Moreover, some symbols are followed by symbol numbers of other parts, which are located near the objective parts and printed to show the rough locations of the objective parts since their symbol numbers are not specified on the board.

2) Waveform

Video: Unless otherwise indicated, (a) color bars signal input through LINE IN terminal in REC in S-VHS mode, (b) color bars signal of MHVE-2Halignment tape in PB.

6. Unit of value

Unless otherwise specified:

- 1) Resistance is in Ω (1/6 W)
- 2) Capacitance in μ F
- 3) Inductance in µH
- 4) Screened parts (in are important or safety assurance. When replacing them, use specified parts.

7. Others

The wiring diagrams appearing in this section a re generally common to the BR-S800E and the BR-S500E,however, there are exceptions that some parts are not used in the BR-S500E or are different in the ratings between the BRS\$ 00E and the BR-S500E. Therefore, make sure to refer to the Electrical Parts List (section 6) to check the rating of parts and to check to see whether the parts are used or not.

4.1 INDEX TO PAGES OF MAIN BOARDS

	Board Name	T T	Page of diagram					
Board No.	Board Name	Block diagram	Schematic diagram	Circuit board	Parts list			
01	MOTHER-1	_	4-16	4-18	6-2			
02	MOTHER-2	_	4-17	4-19	6-2			
03	SLOT MOTHER	_	4-20	4-21	6-2			
10	VIDEO-1	4-5, 6, 8, 9	4-22, 23	4-24, 25	6-2 ~ 10			
	VIDEO-2	4-5, 7, 8, 9	4-30, 31	4-32, 35	6-10 ~ 17			
12	AV PRE/REC	4-5, 8, 9	4-36, 37	4-36	6-17 ~ 19			
1 5	BURST ADD	4-9	4-29	4-28	6-19			
20	FM AUDIO	4-10, 12	4-46 ~ 48	4-51	6-20 ~ 23			
21	NORMAL AUDIO (BR-S800)	4-11	4-38 ~ 41	4-42	6-23 ~ 28			
22	NORMAL AUDIO (BR-S500)	4-13	4-44	4-45	6-28 ~ 29			
23	AV I/O	4-8, 10, 12	4-52 ~ 54	4-57	6-30 ~ 34			
30	SERVO/M-CTL	4-4	4-58, 59	4-60, 63	6-34 ~ 40			
31	SYSCON	4-14, 15	4-64	4-65	6-40 ~ 41			
32	OPE-CPU	4-10, 12, 15	4-66	4-68	6-42			
33	OPE-VR	4-15	4-67	4-68	6-42 ~ 43			
34	OPE-SW	4-15	4-66	4-68	6-43 ~ 44			
35	OPE-DIAL	4-15	4-66	4-68	6-44			
40	REAR	4-8	4-69	4-70	6-44 ~ 45			
50	END SENSOR	_	4-21	4-21	6-45			
5 1	REC SAFE SW	_	_	4-21	6-45			
52	s-switch	_	_	4-21	6-45			
53	MODE MOTOR	_	_	4-21	6-45			
54	C. HOUSING	_	_	4-21	6-45			
55	MECHA TERMINAL	— .	_	4-21	6-46			
56	A/C HEAD	_	-	4-21	6-46			
60	PRIMARY	_	4-71	4-72	6-46			
61	SW REGULATOR	_	4-71	4-72	6-46 ~ 47			
62	REGULATOR	_	4-71	4-72	6-47 ~ 48			
64	LINE FILTER	_	4-71	4-72	6-48			
94	DRUM	_	-	4-36	6-48			
95	CONNECTOR	_	_	-	6-48			

4.2 REPLACING SUBMINATURE "CHIP" PARTS

1. General description

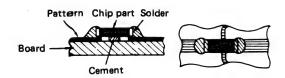
Some of resisto rs, variable resistors, shorting jumpers (0 Ω resistors), ceramic capacitors, transistors, diodes are chip parts. Those removed once cannot be used again.

2. Replacement of chip parts

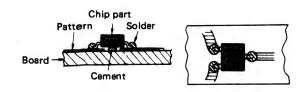
Replacement of chip parts should be performed as follows. Use a soldering iron (17 W for 260-30°C approx.) that has sharp-pointed tip and high performance in insulation.

It is more convenient to use a soldering iron with solder absorber (55 W approx.).

- (1) Soldered condition of chip parts
- Resistors, capacitors, etc.



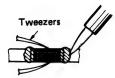
• Transistors, diodes, etc.



- (2) Removing of chip parts
- Resistors, capacitors, etc.
- i) Melt solder at a side.



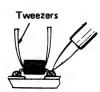
ii) Holding the chip with tweezers, melt solder at the other side.



iii) Take off the chip in twisting and sliding motion.



- Transistors, diodes, etc.
 - i) Melt solder at the side of single lead.



ii) Lift the unsolderd side upwards.



iii) Simultaneously melt solder at two leads of the other side and pull up the chip.



(3) Preheating and soldering of chip parts

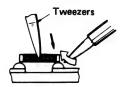
Except transistors, make sure to preheat al

Except transistors, make sure to preheat all chip parts, capacitors in particular, with a hot wind of 150°C approx. (of a hair dryer, etc.) for 2 minutes just before soldering, and immediately solder by a soldering iron of approx. 30 W.

- (4) Attaching of chip parts
 - i) Heap up a proper amount of solder beforehand.



ii) Holding down a new chip by tweezers, solder it to the board by a soldering iron to melt solder from its lower part to the upper part (in the direction shown by a big arrow).



Note: • Don't heat chip parts over 3 seconds.

- Don't rub electrodes.
- Don't use chip parts which were once removed.
- No cement is required.

3. Shapes of transistors & diodes

Transistors

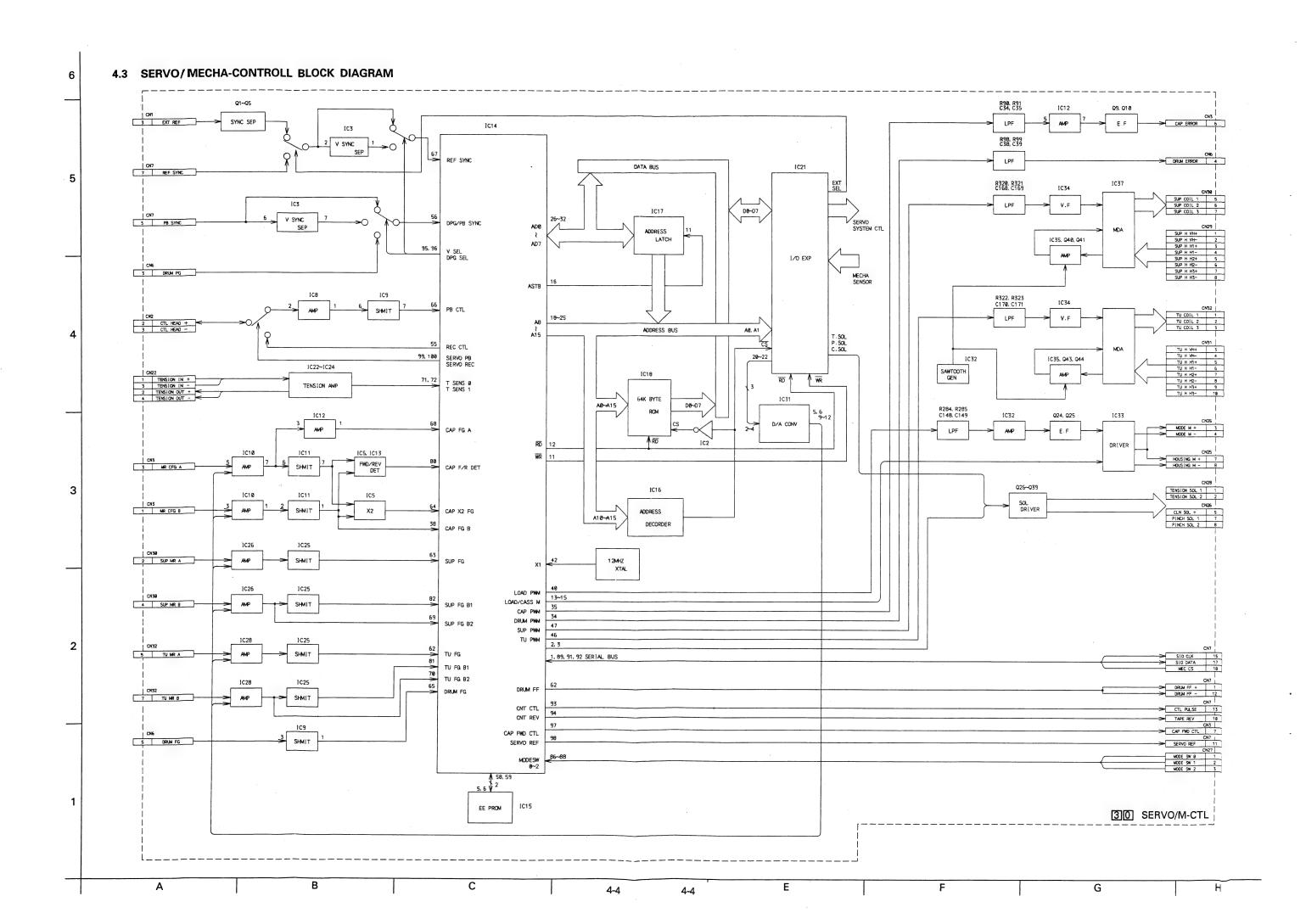
DTA124EK	2
DTA144EK	2
DTC114EK	1
DTC114YK	1
DTC144EK	1
DTC144EU	1
FMG2	3
FMS1	4
FMW1	5
IMX1	6
IMZ1	7
IMZ2	8
2SA1022C	9
2SB709	9
2SC2412K	9
2SC2778	9
2SC4081	9
2SD601/A	9
2SD602/A	9
2SK621	10

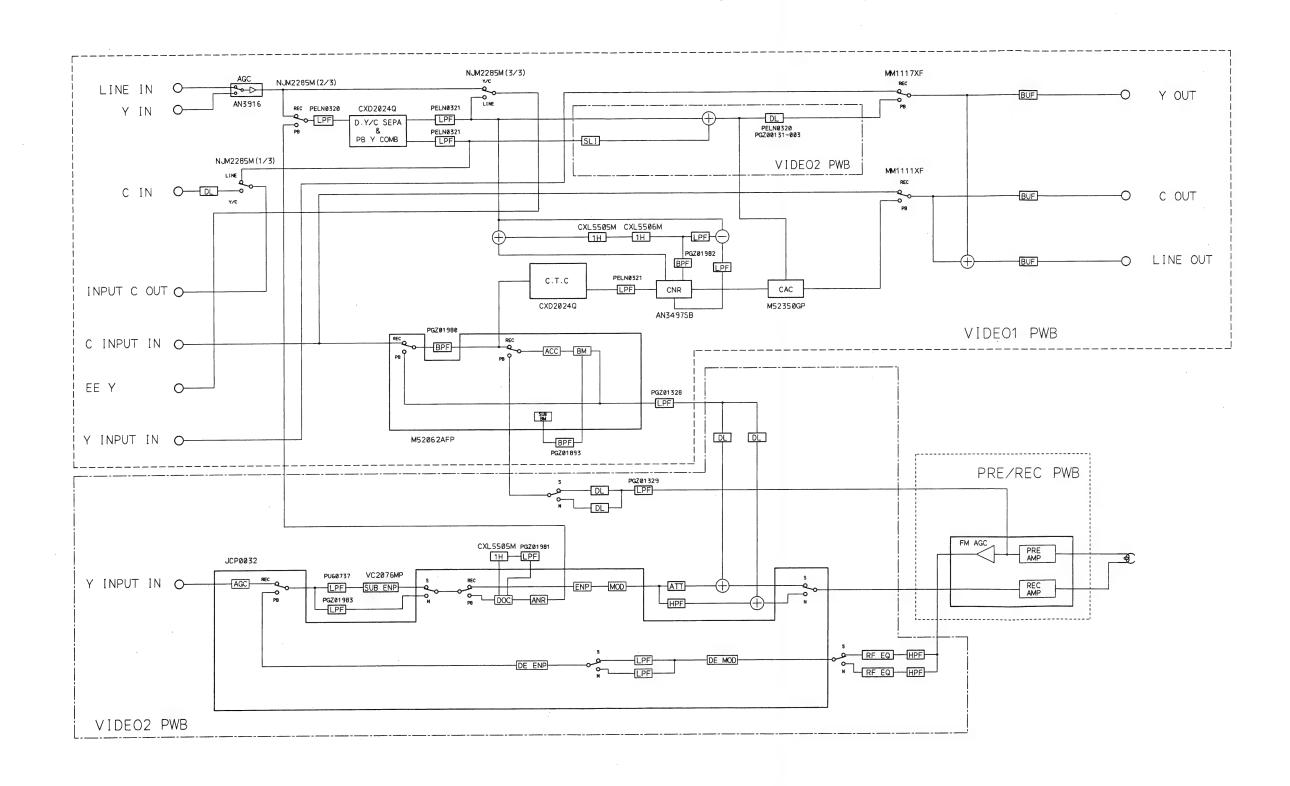
Diodes

ſ	DAN202K	11
١	DAP202K	12
ı	MA28WA	13
١	MA3056	13
١	MA3075	13

1	6	11
B E OUT OUT GND	4 5 6 3 3	CATHODE
2 .	7	12
B OUT R1 R2 GND	3 2 1 2 0 3 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0	ANODE
3	8	13
3 3 4 5	8 4 5 6 3 2 1 0 1 0 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 C C NC
50000	3 2 1 0 1 0 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A S
500000000000000000000000000000000000000	3 2 1 0 1 0 2 5 0 6 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A S
4	3 2 1 0 2 3 3 9 9 C C C C C C C C C C C C C C C C	A SO

4-3





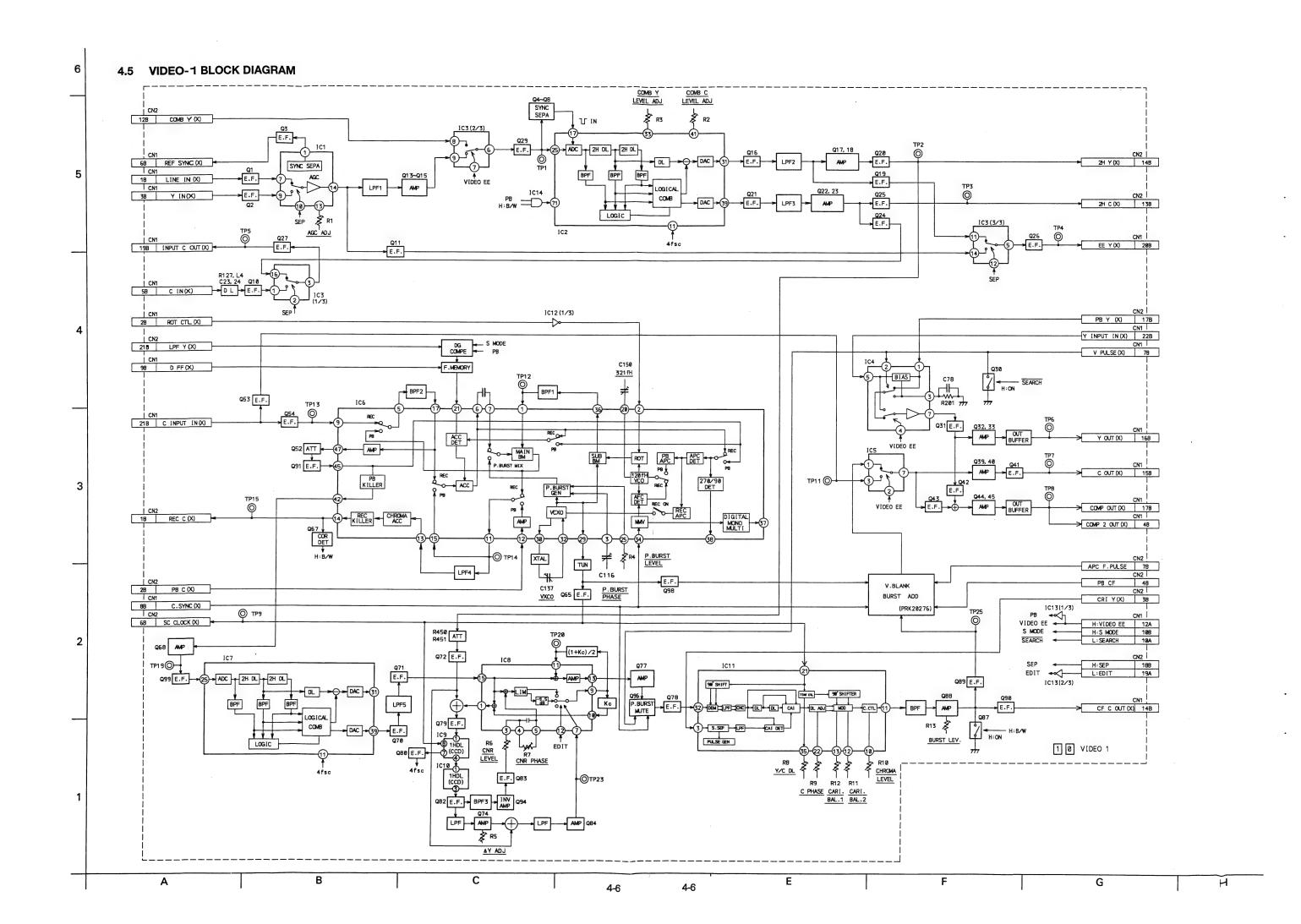
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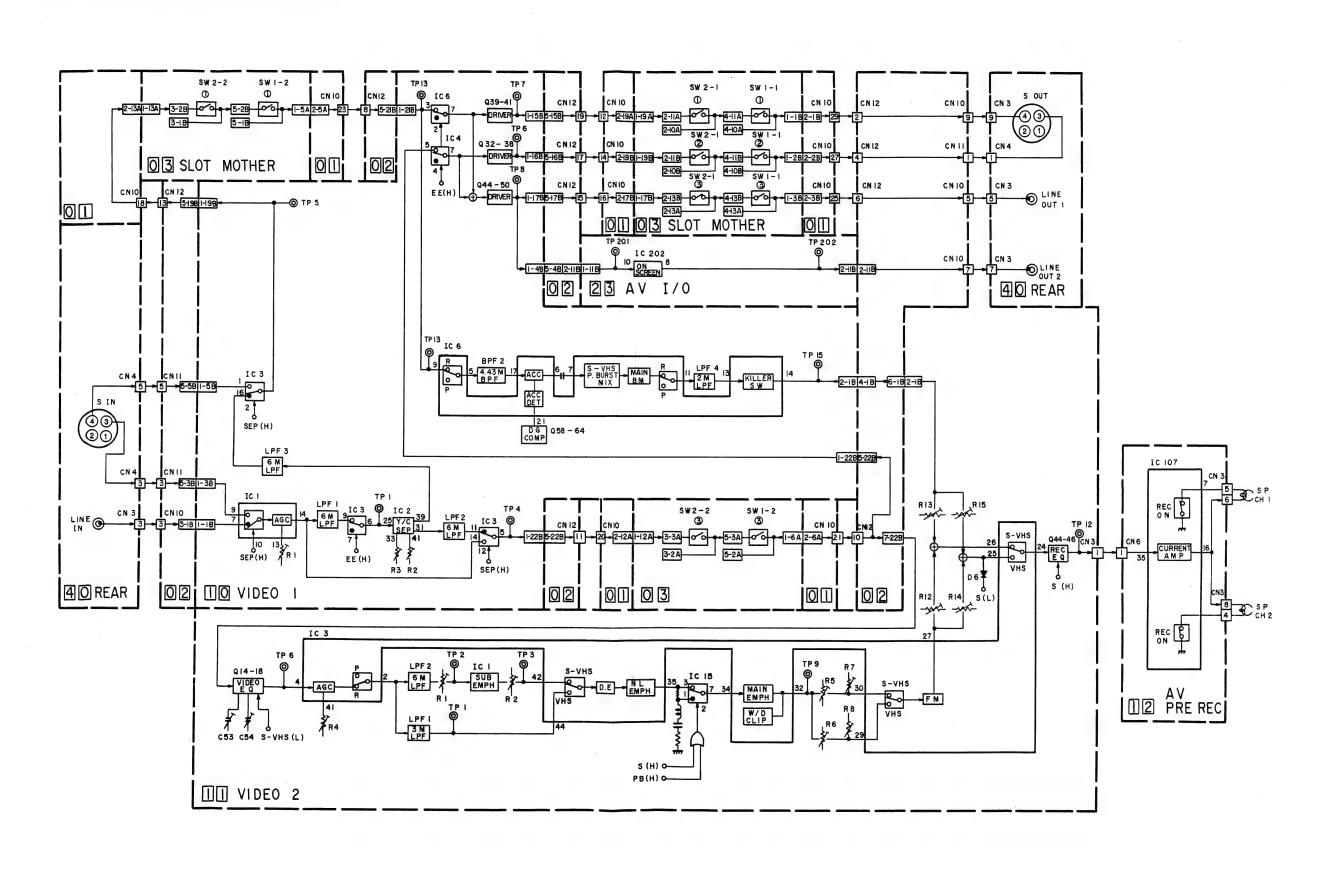
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4-7



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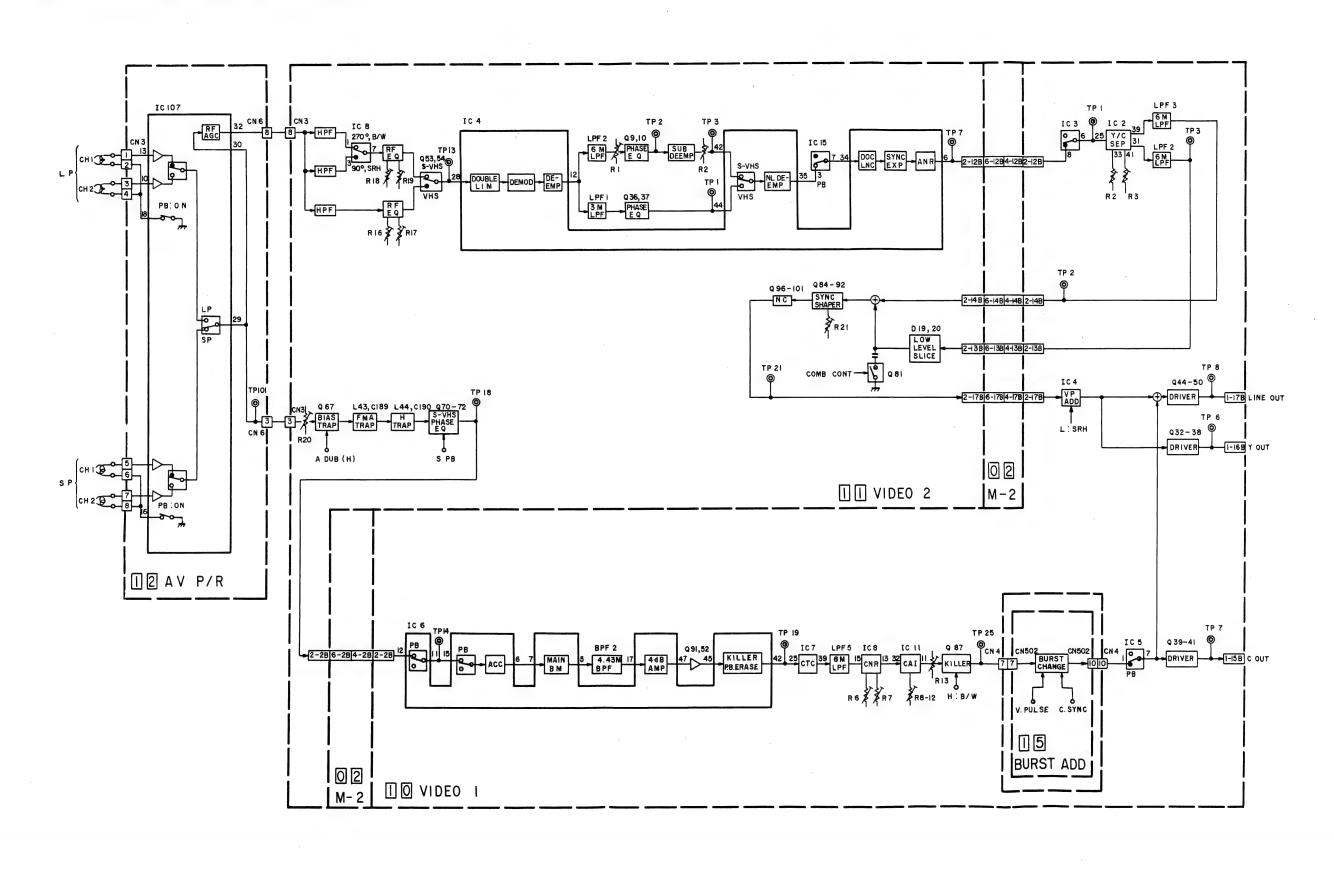
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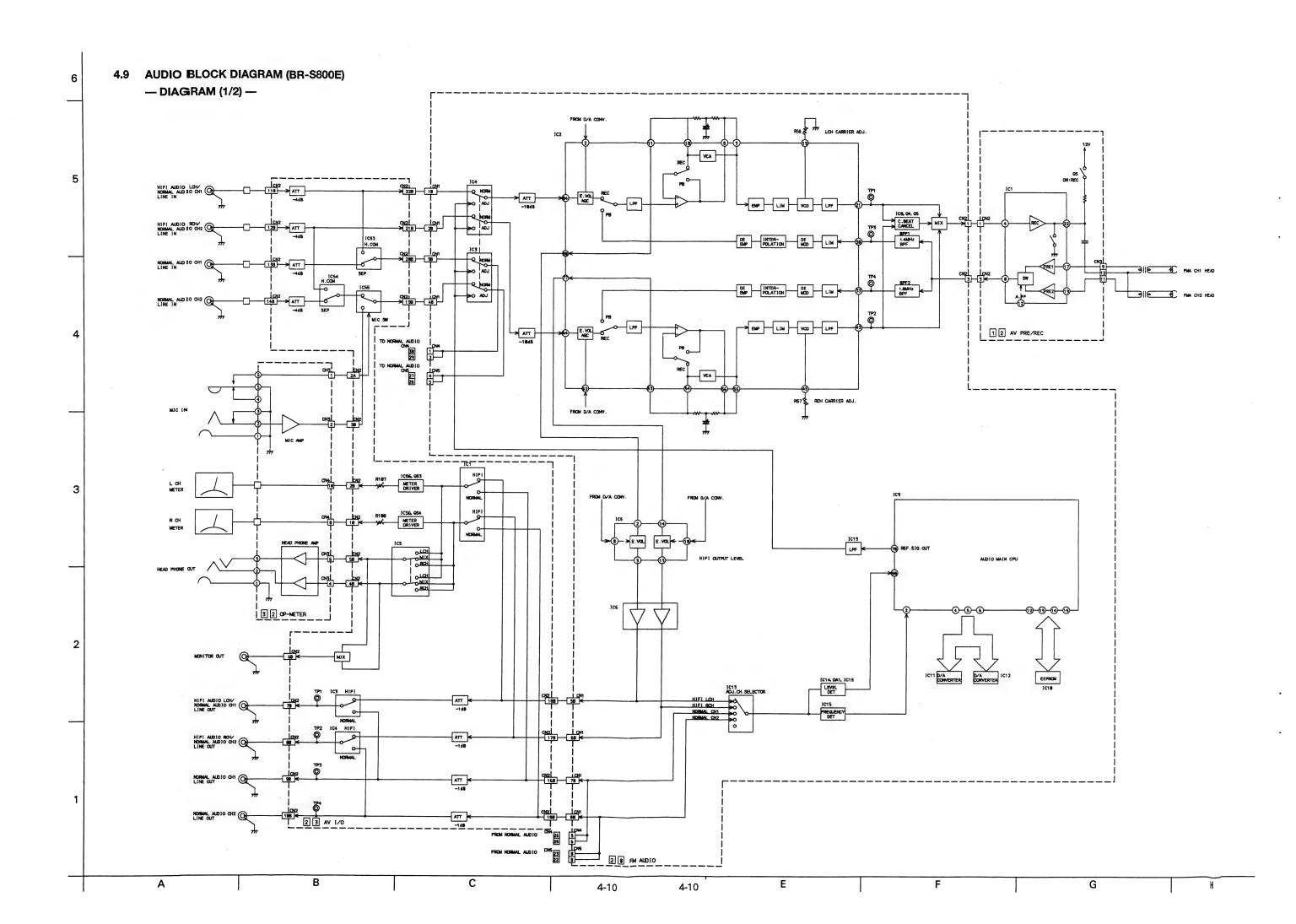
4-9

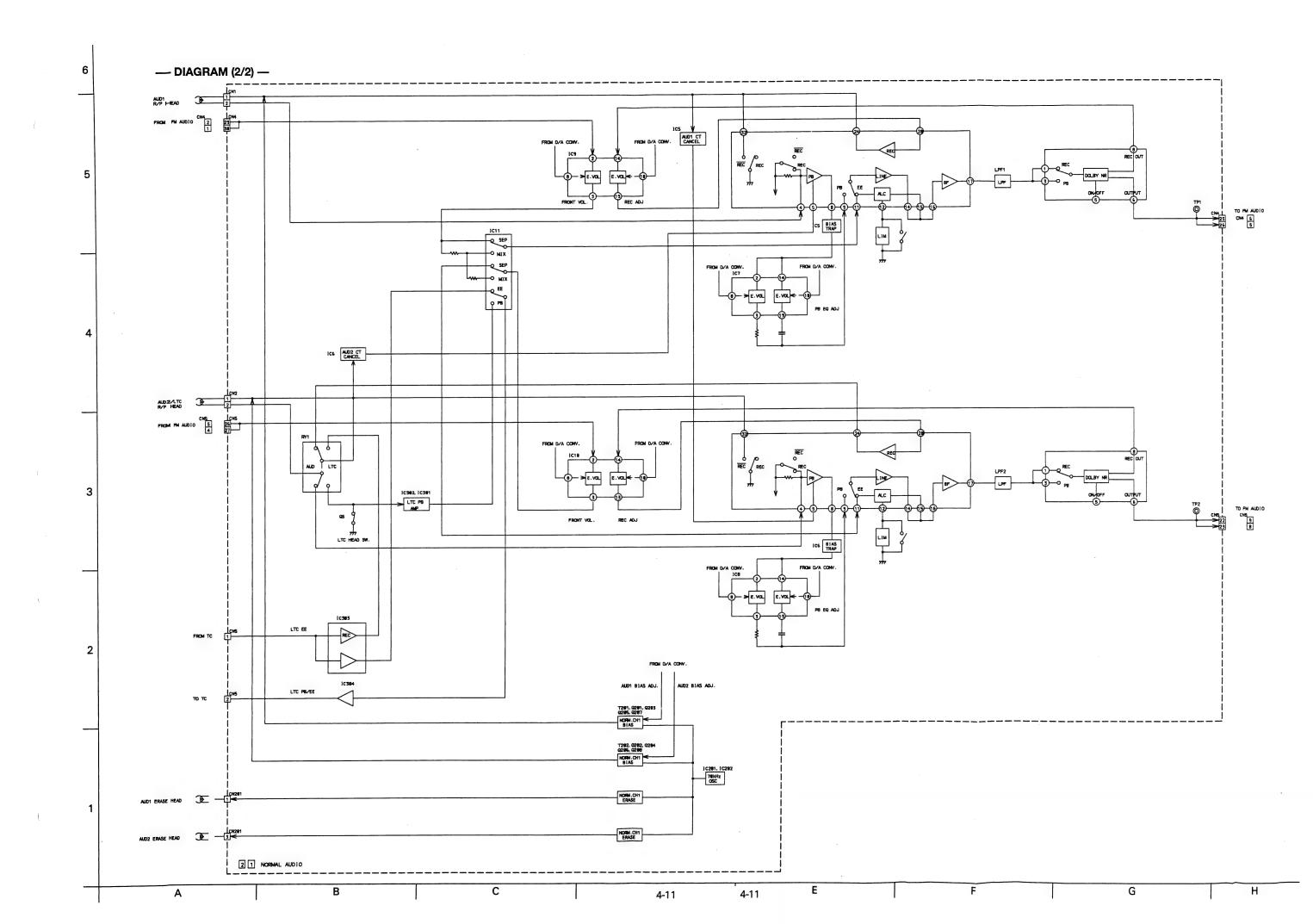
E

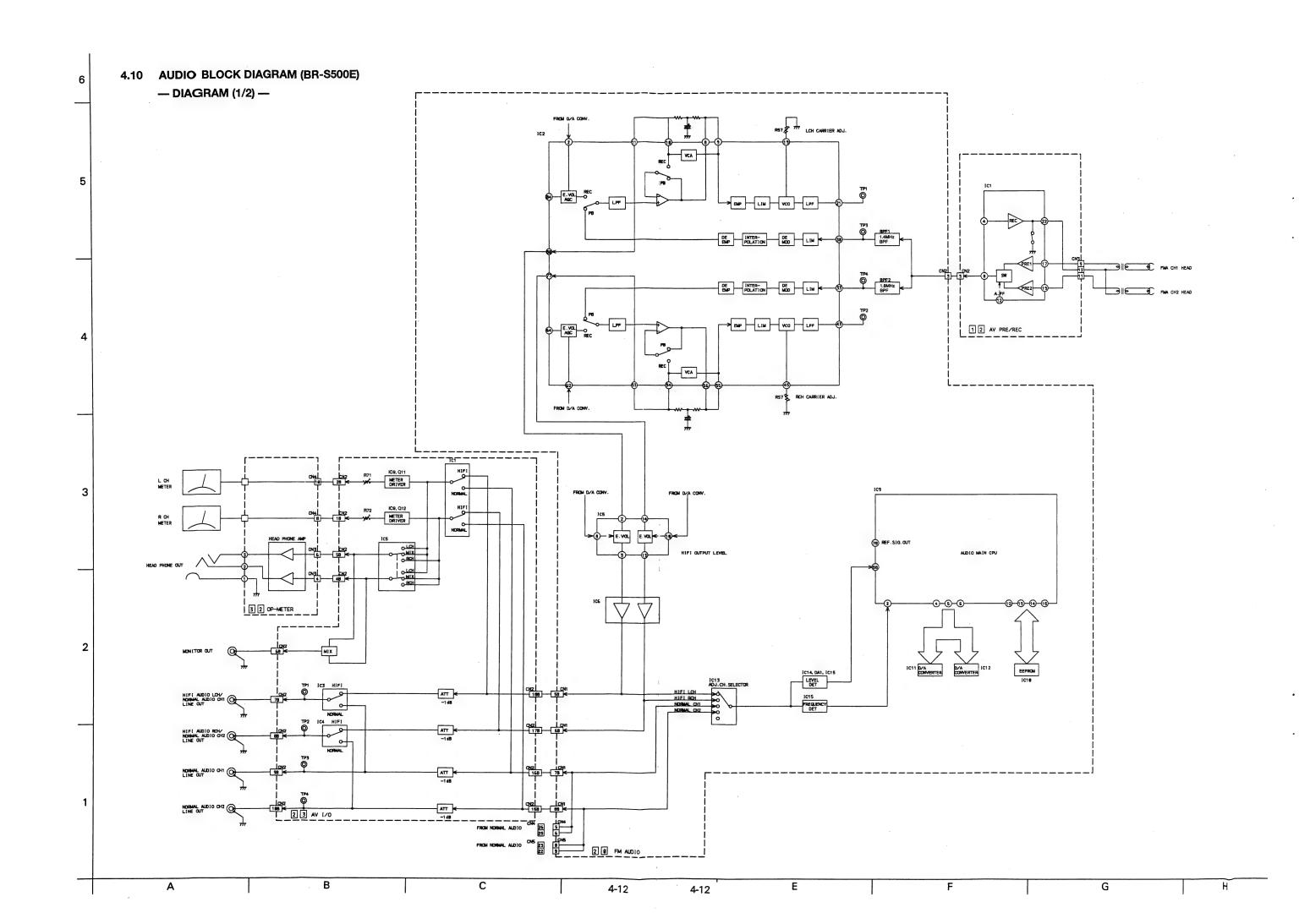
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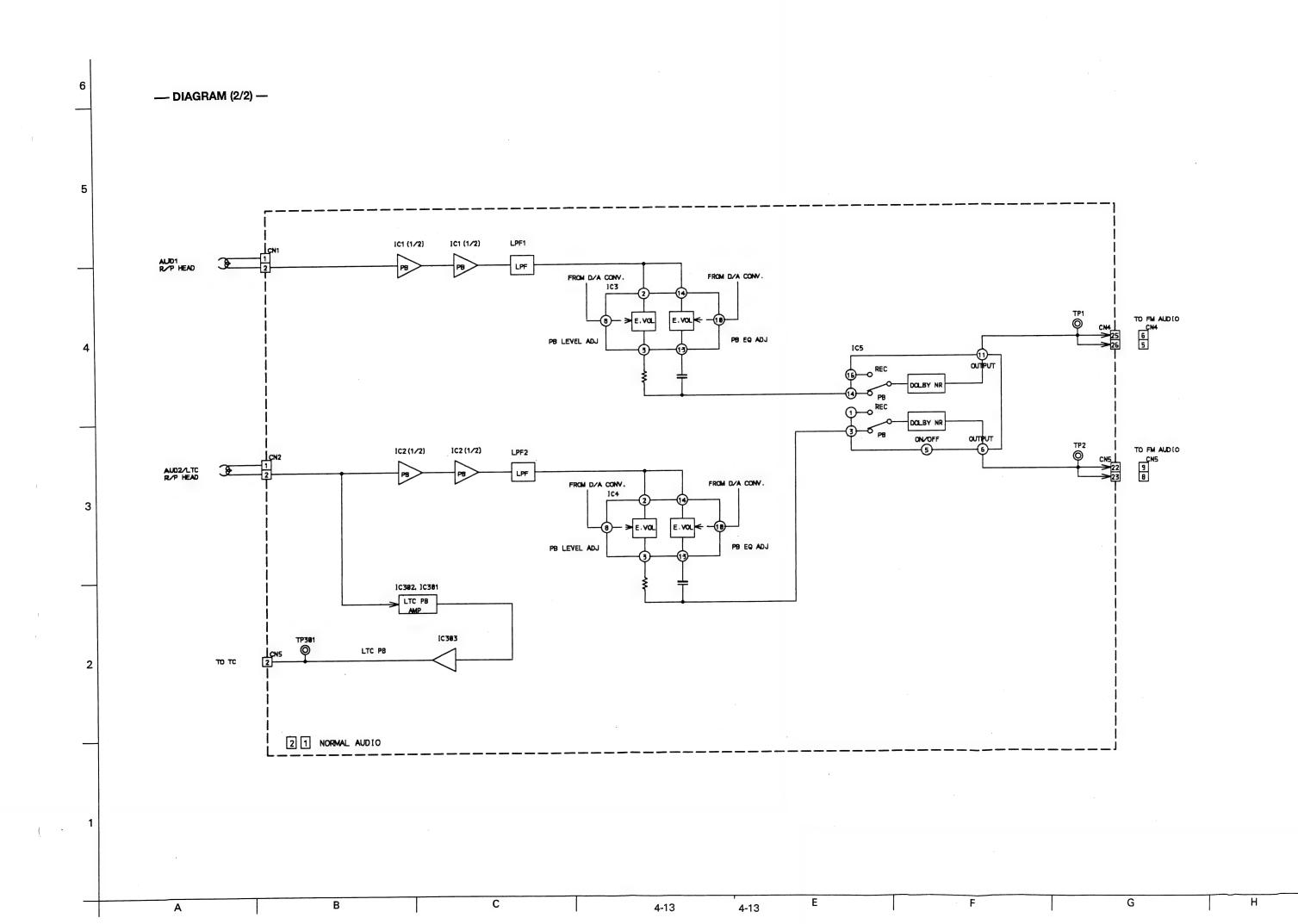
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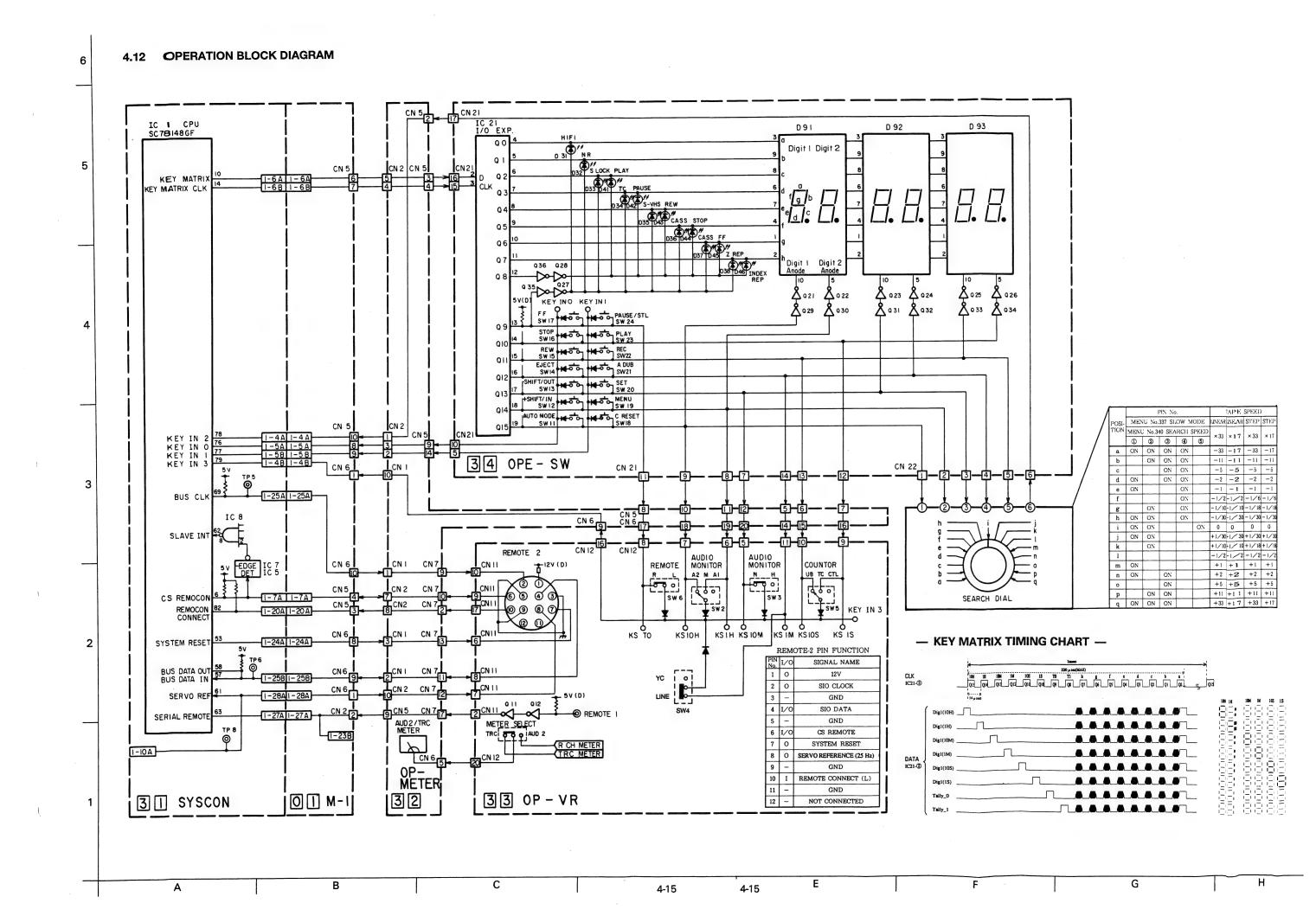


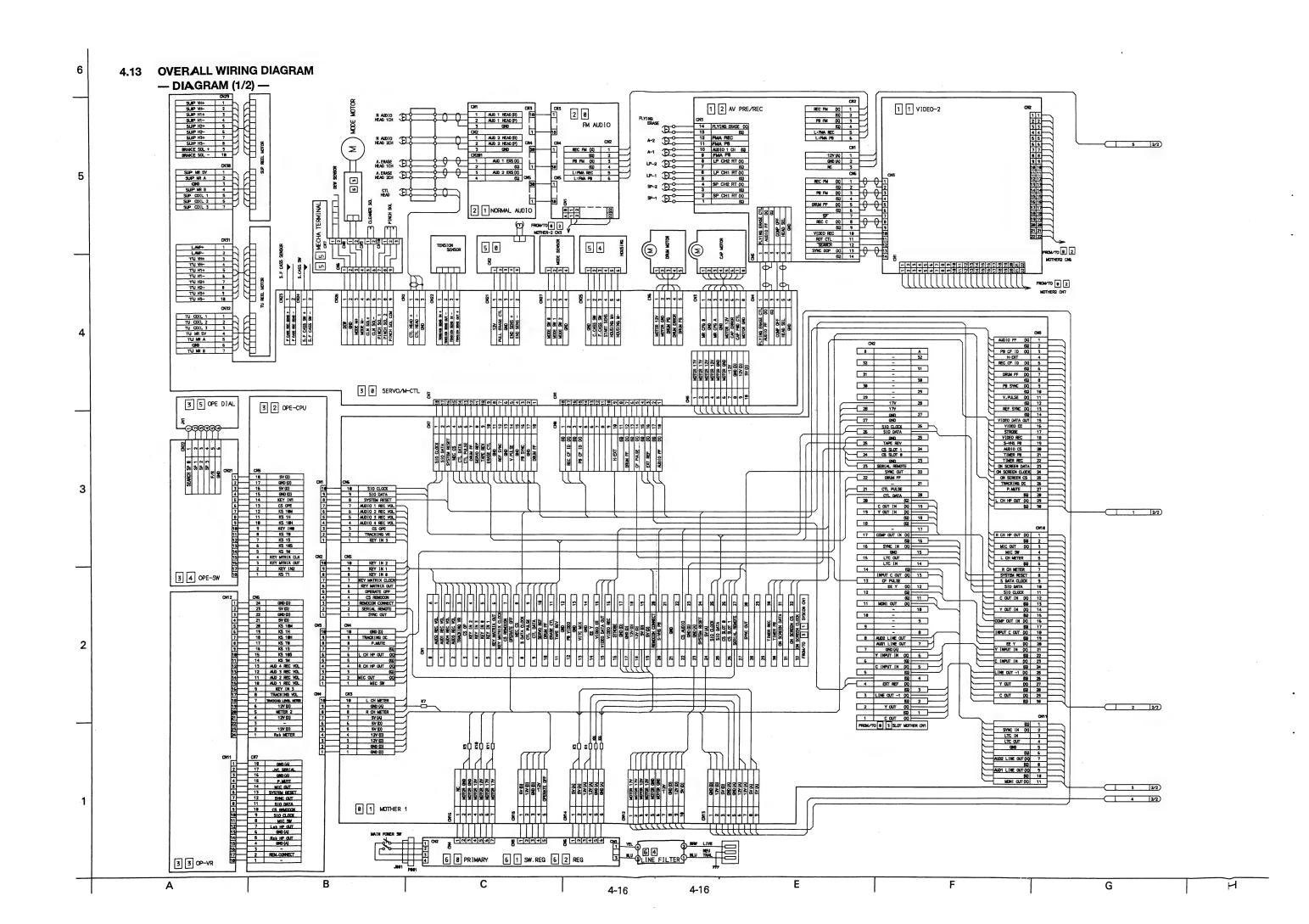


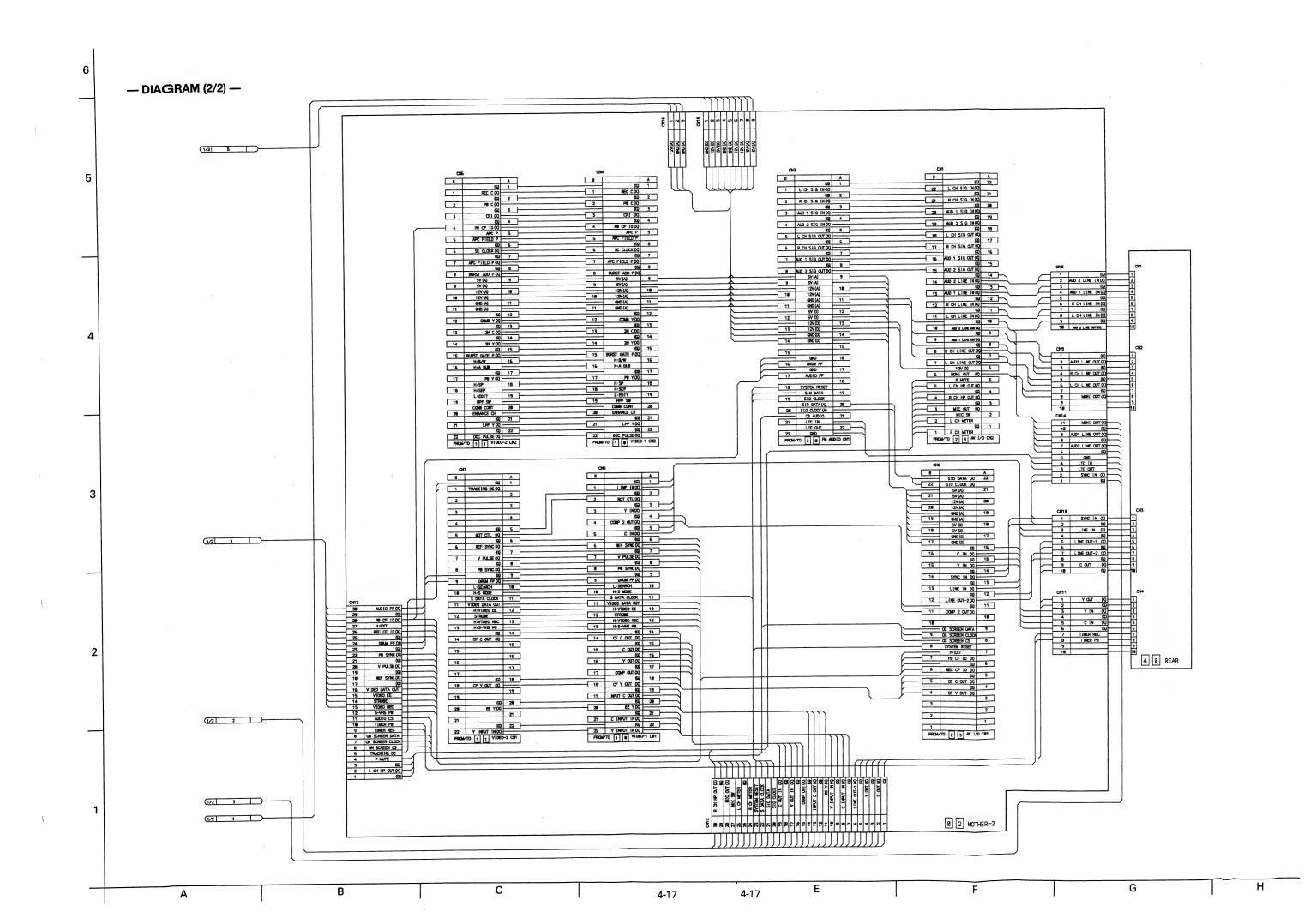
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4-14

G

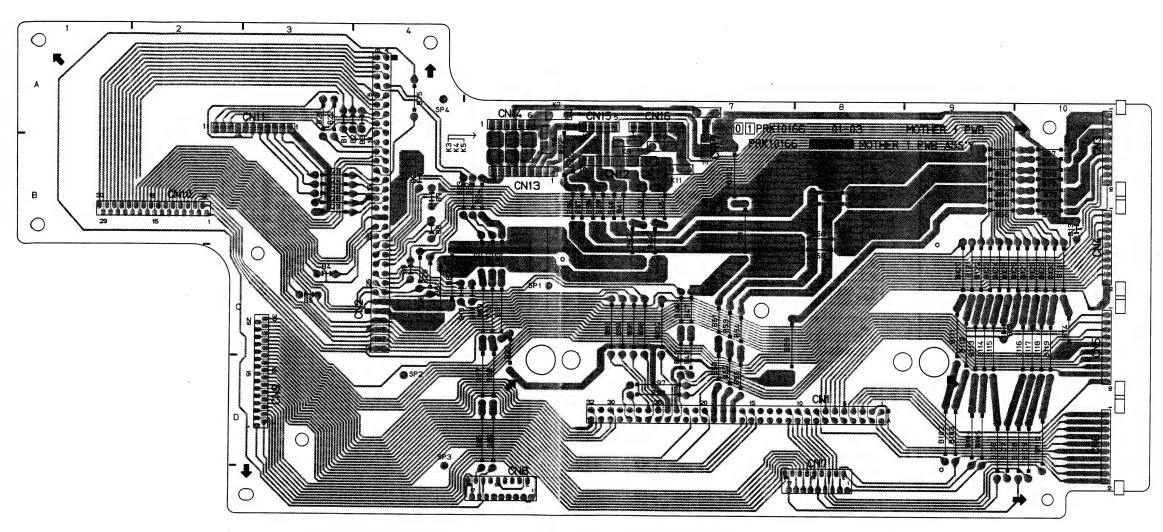






4.14 MOTH ER-1 CIRCUIT BOARD

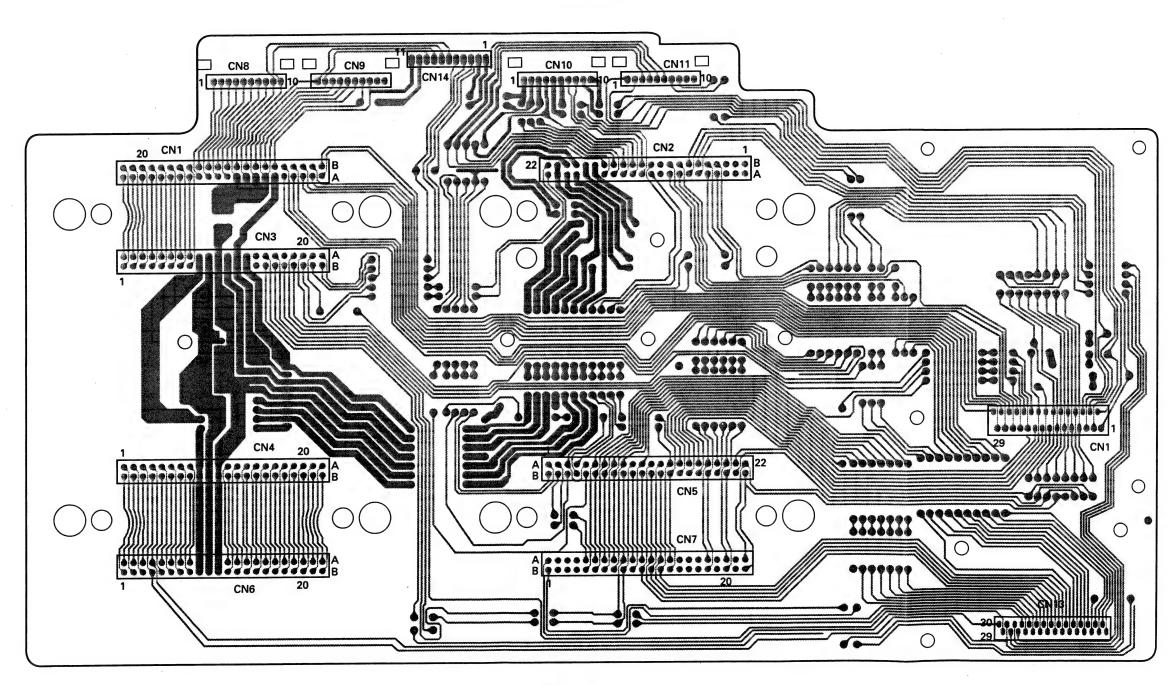
- SOLDER Side -



(PRK10166-01-03)

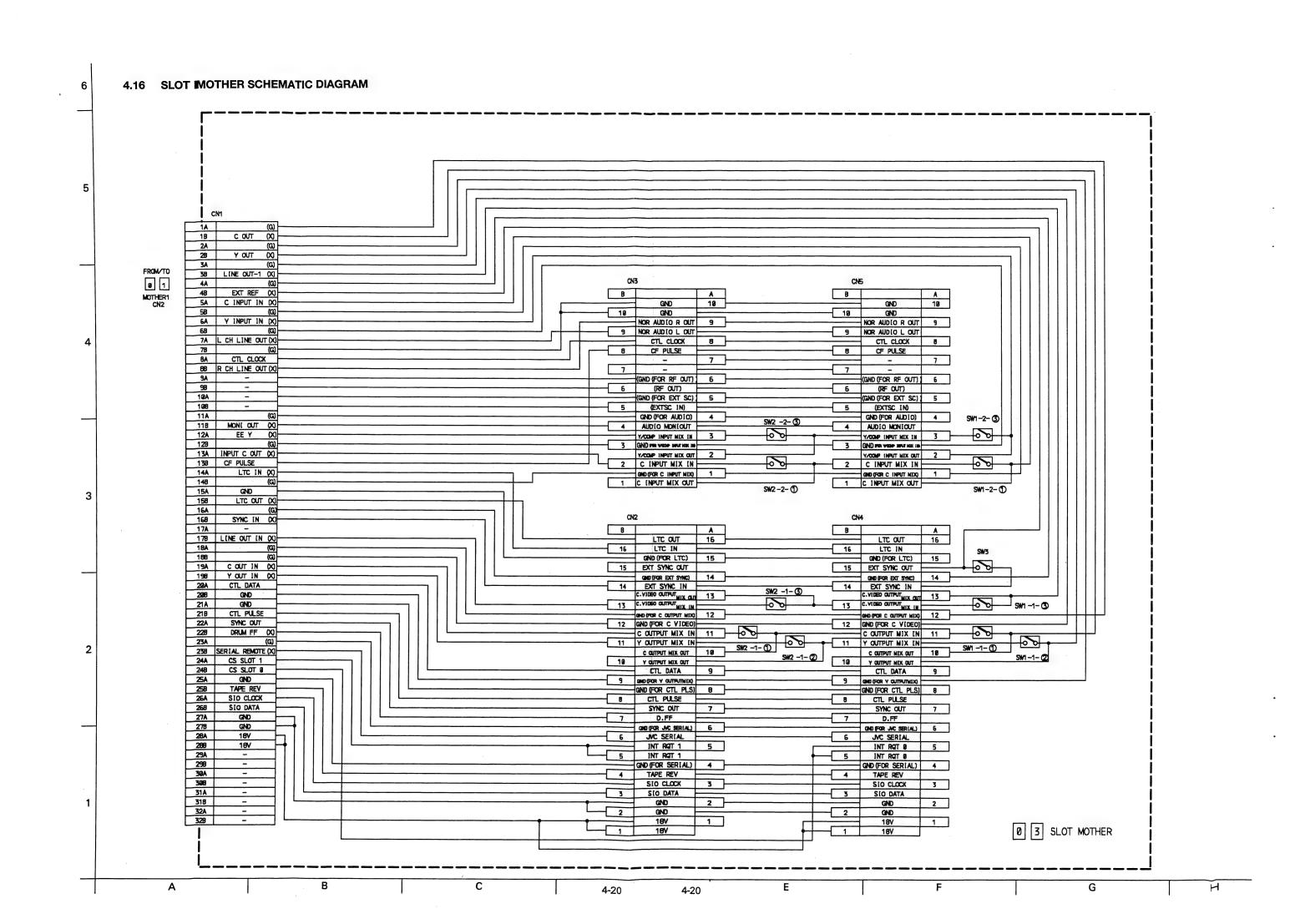
В **4**-18 4-18

- SOLDER Side -



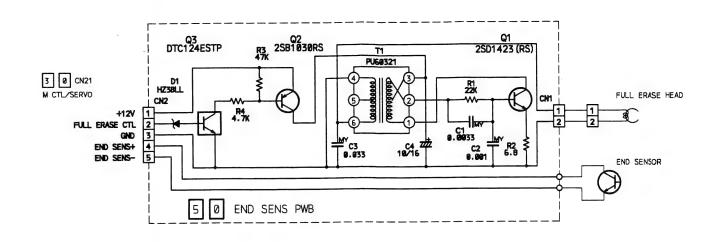
(PRK10164-01-01)

B C 4-19 E F G

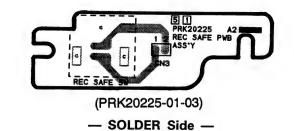


(PRK20275)

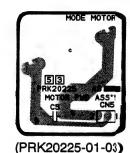
4.19 END SENSOR SCHEMATIC DIAGRAM







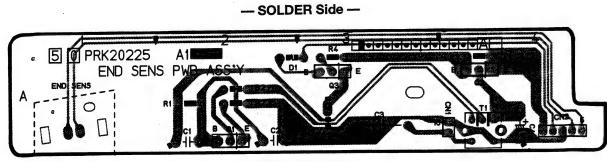




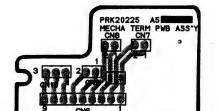
(PRK20225-01-03)
— SOLDER Side —

- C. HOUSING -

4.18 END SENSOR CIRCUIT BOARD

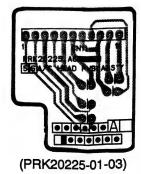


(PRK20225-01-03)



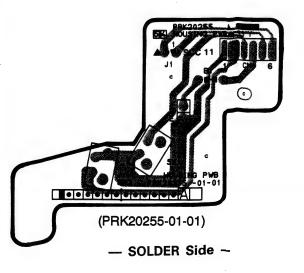
— M-TERMINAL —

(PRK20225-01-03)
— SOLDER Side —



- A/C HEAD -

(PRK20225-01-03)
— SOLDER Side —



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4-21

4-21

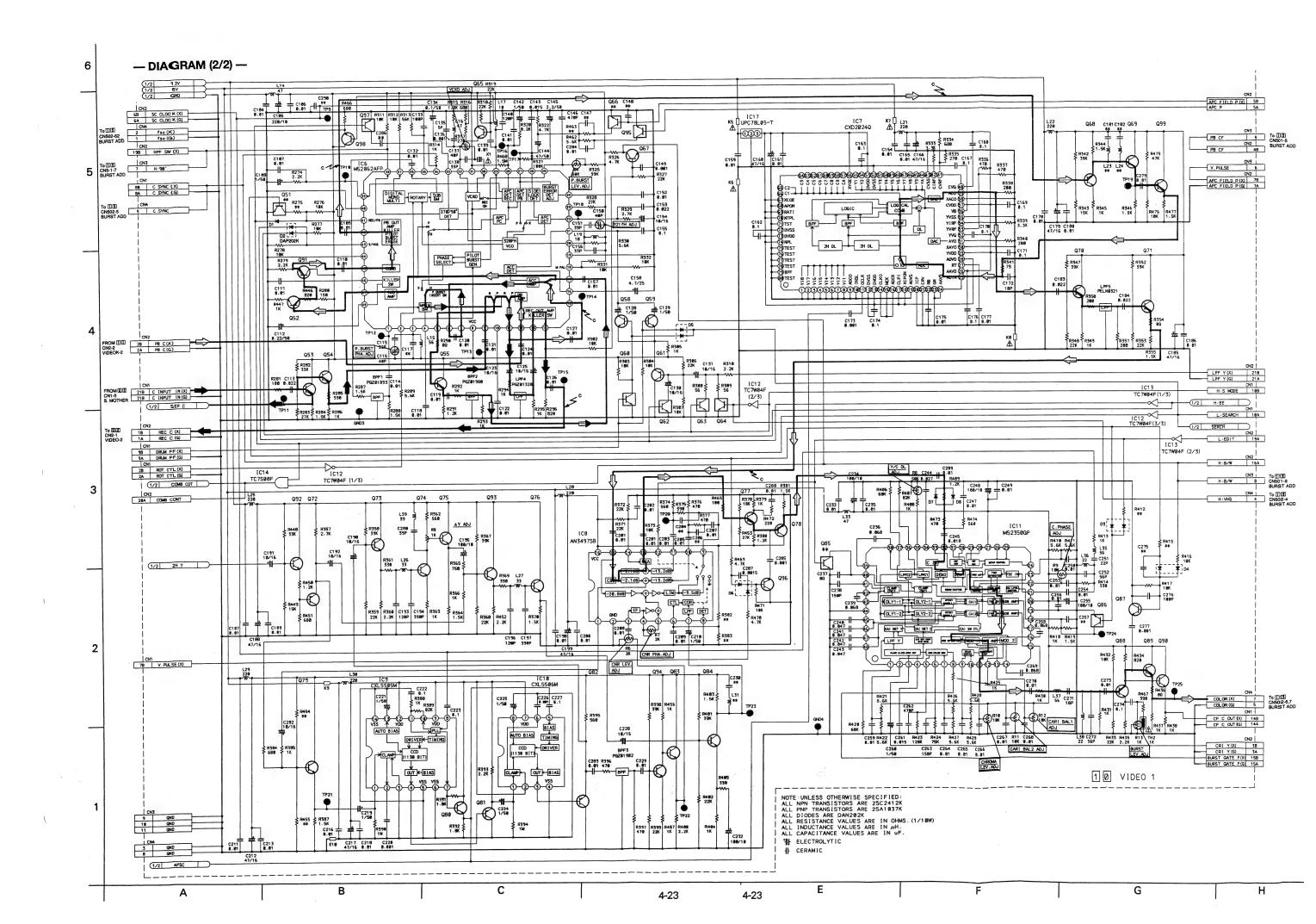
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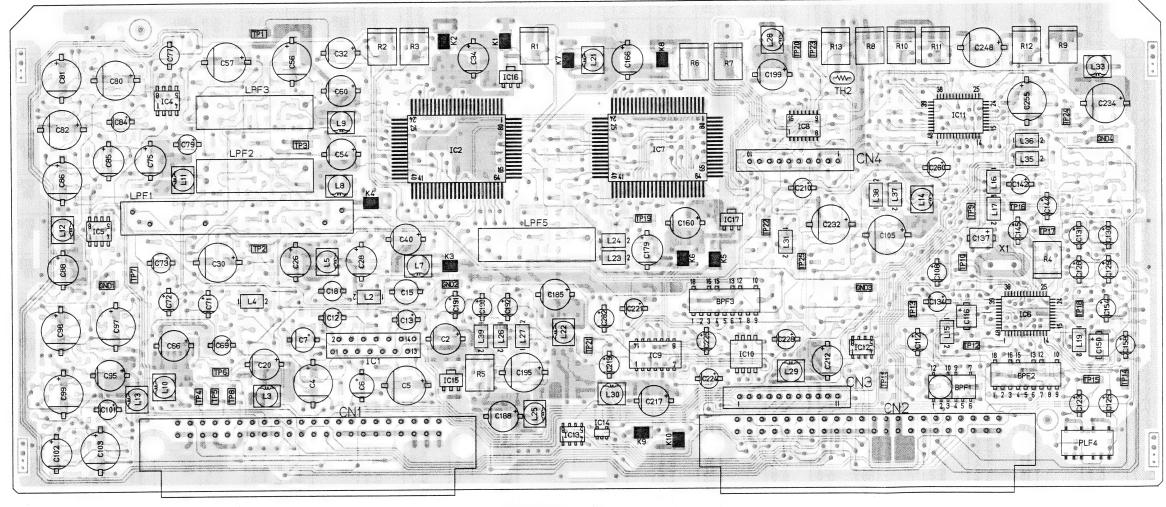
(PRK20262-01-02)

— MAIN WAVEFORMS OF VIDEO-1 CIRCUIT — TP1 TP2 TP3 TP4 TP5 TP6 TP7

[PB] [REC] [REC] [REC] [REC] [REC] [PB] [REC] [REC] [PB] [PB] [REC] 2.1 Vp-p - S-VHS -2.1 Vp-p – MHVE-2H Burst level: 0.24 Vp-p 2.1 Vp-p 2.0 Vp-p Burst level: 0.59 Vp-p Burst level: 0.6 Vp-p 0.76 Vp-p/4.4 MHz 1.0 Vp-p Burest level: 0.5 Vp-p 1.8 Vp-p 1.5 Vp-p 1.5 Vp-p - MHVE-2H -- MHVE-2H -- S-VHS -- S-VHS -- S-VHS -- S-VHS -- S-VHS -- S-VHS -- MHVE-2H -- MHVE-2H -- S-VHS -

TP9

A B C 4-24 E F G



(PRK20262-01-02)

- MAIN WAVEFORMS OF VIDEO-1 CIRCUIT -

TP10	TP11	TP12	TP13	TP14	TP15	TP18	TP19	TP21	TP22	TP23	TP24
West Constitution of the		90 A The Co. Co. Co.		Marian Marian	1.5		מישות בי הייתים				
		$A \wedge A \wedge A$					TEN VIEW			•	
				Y January January I					المرسرة المرسوا	A Prince of British Park	
[REC]	[REC]	[REC]	[REC]	[PB]	[REC]	[REC]	[PB]	[PB]	[PB]	[PB]	[PB]
	Burest level: 0.26 Vp-p		Burst level: 0.18 Vp-p	Burst level: 0.14 Vp-p	Burst level: 0.22 Vp-p	Upper: VIDEO OUT	Burst level: 0.86 Vp-p	0.45 Vp-p		Upper: VIDEO OUT	Upper: VIDEO OUT
– S-VHS –	- S-VHS -	– S-VHS –	- S-VHS -	– MHVE-2H –	- S-VHS -	Lower: TP18	– MHVE-2H –	– MHVE-2H –	- MHVE-2H -	Lower: TP23	Lower: TP24

A B C 4-25 4-25 E F G H

— DC Voltage (1/2) —

SYMBOL	No.	REC	PB	SYMBCL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB
INTE	GRATE 1234567889111234	D C I 6-1-10729900062099999999999999999999999999999	T 60010720000062000	IC2 7E	73 74 75 76 77 78 79 80	5.1 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	550000000000000000000000000000000000000	IC6 14C IC7 9E	46 47 48 1 23 4 56 7 8	3.4 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3. 4 3. 9 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0	IC8 11F	567890-255456	221-01-530-2250	616082208521 2210133022355
IC2 7E	+				1234567890-123456	20.10.11.31 400022006	2010110220002006		1123456789012222	000000000401-888044455585555555555555555555555555555	000000000000401333311100066001	IC9 9B	1234567800-2334	220200883922980	220200000000000000000000000000000000000
	10112334556788	000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	105	12345678	30.000 30.000 11.00 6	3.7022077900		234567890 222222333	0000445555000001421540155220140051101	1.585 4.25 4.0.2	IC10 IIB	14 1 23 4 56 7 8	0. 0 2. 199 1. 0. 34 9. 34 9. 8	0. 0 2. 1.99 1. 0.55598 2. 2. 598
	12012334567 2222222222	0486000495 020.00.142.	048600495 0000145	IC5 2D	12345678	6.92600 11.990	6. 6 0. 0 6. 6 0. 0 11. 8 5. 9 0. 0		234567890 23333333340	32.20.14.0.0.3.	32201400734	IC11 14F	-		
	122345678901-25345678901-22222222222233333333333344444444444444	00000000000000000000000000000000000000	6000600486004651880300000280046670000 600046670000 600046670000	IC6 14C	12534567-800-12534567-800-1	3 104+00+14521-1524-2601-515-170441-1-0-1053400304066602 2 55555555555555555555555555555555555	3 12(600) 1442 15042 16000 16		1234567890-2356666666666666666777777777777890-23666666666666666666666666666666666666	1. 4 0. 0 1. 4 1. 2 1. 4	440280734500000000000000000000000000000000000		1-2354567-8650-1-2454567-8650-1-2354567-8650-1-2354567-8650-1-2454567-8	80500000000000000000000000000000000000	@15\050-1-16\050-\051\051\051\051\051\051\051\051\051\051
	44444444565555555555555555555555555555	000010010000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		11711112222222222222233333333333444444	\delta \langle \langle \text{\figuresis \frac{1}{2}} \langle \text{\figuresis \frac{1}{2}} \langle \text{\figuresis \frac{1}{2}} \langle \text{\figuresis \frac{1}{2}} \figuresis \f	4100410-1-151-80040001-140- 00101-6004100100000000000000000000000000		0434 666667 6667 7723 7756 7789 80	000010010212100088101100110000000000000			301234567890123445678	45000000000000450000450000000000000000	-90004150-10000000000000000000000000000000
	69 70 71 72	0. 0 5. 1 0. 0 0. 0	0. 0 5. 0 0. 0		42 43 44 45	2. 6 2. 6 0. 0 3. 2	2.6 2.6 0.0 3.2	IC8 11F	1 2 3 4	1. 8 0. 0 2. 6 2. 6	1. 8 0. 0 2. 6 2. 6		48	3. Z	3. Z

SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB
IC12 120	1 2 3	5. 3 2. 2 5. 0	5. 3 5. 2 0. 0 0. 0	013 40	B C E	11. 0 2. 2	11. 0 2. 3	036 2E	B C E	7. 5 11. 9 6. 9	17. 4 11. 9 6. 9	Q 61 16D	BCE	1. 7 0. 0 2. 4	1. 7 0. 0 2. 4
	2345678	52500205	0. 0 0. 0 5. 3	014 4D;Q15	B C E	11. 0 4. 2 11. 6	11. 0 4. 2 11. 6	037 2E	B C E	6. 9 9. 0 6. 2	6. 9 9. 0 6. 2	062 15D	B C E	0. 0 0. 9 0. 0	5. 3 0. 0 0. 0
IC13 8A	-	5. 0 0. 0 5. 3 0. 0 0. 0	0. 0 0. 0 5. 3 0. 0 0. 0	015 3D	B C E	12. 0 3. 6	12. 0 3. 7	038 IE	B C E	1. 7 6. 2 1. 1	1. 7 6. 2 1. 1	063 16E	B C E	5. 2 0. 1 0. 0	5. 2 0. 1 0. 0
	12345678			016 5E	B C E	12. 0 12. 0 3. 3	12. 0 12. 0 3. 3	039 ID: R238	B C E	3. 3 9. 1 2. 7	3. 3 9. 1 2. 7	Q 64 1 5E	B C E	0. 0 0. 1 0. 0	0. 0 0. 1 0. 0
IC14 9A	 	0. 0 5. 3 0. 1	5. 3 5. 3	017 4E	B C E	11. 0 13. 7	11.0 13.7	040 2D: R124	B C E	9. 1 6. 2 9. 8	9. 1 6. 2 9. 8	065 14D	B C E	2. 4 5. 1 2. 0	2. 4 5. 1 2. 0
9A	12345	0. 1 0. 1 0. 0 0. 0 5. 3	5. 3 0. 1 0. 0 0. 0 5. 3	018 4E	B C E	1 <u>1</u> . 0 5. 8 11. 6	11. 0 5. 8 11. 7	041 2C;Q40	BCE	6. 2 11. 8 5. 6	11. 8 11. 8 5. 7	967 160	B C E	0. 7 0. 1 0. 0	0. 7 0. 1 0. 0
IC15 7B	1 2 3	12. 0 0. 0 5. 1	12. 0 0. 0 5. 1	019 4E	B C E	12. 0 3. 6	12. 0 3. 6	042 2C: R248	B C E	6. 2 11. 9 5. 6	6. 2 11. 9 5. 6	968 9D	B C E	3. 2 7. 9 2. 7	3. 2 7. 9 2. 7
IC16 7F	1 2 3	12. 0 0. 0 5. 1	12. 0 0. 0 5. 1	020 4D;Q11	B C E	15. 8 12. 0 5. 2	15. 8 12. 0 5. 2	043 2C: R247	B C E	13. 3 11. 9 2. 7	11. 9 2. 7	Q69 9D	B C E	11. 8 17. 4	7. 9 11. 8 7. 4
IC17 10D	1 2 3	12. 0 0. 0 5. 1	12. 0 0. 0 5. 1	Q21 5F	B C E	3. 8 11. 9 3. 3	3. 9 11. 9 3. 3	044 2C: R251	B C E	11. 8 11. 1 1. 2	11.8 11.2 1.2	970 8C	B C E	3. 9 1 <u>1</u> . 8 3. 3	3.9 11.8 3.3
7 F Q1 6B	R A N			022 4F	B C E	2. 4 11. 1 1. 9	2. 4 11. I 1. 8	045 2B; R253	B C E	11. 1 4. 4 11. 7	11. 2 4. 5 11. 8	971 70	B C E	4. 2 1 <u>1</u> . 8 3. 6	11.8 13.6
02 5C	B C E B	2. 3 5. 1 1. 8 2. 3	2. 3 5. 1 1. 8 2. 3	023 4F	B C E	11. 1 3. 3 11. 7	11. 1 3. 3 11. 7	046 ÎB	B C E	4. 6 11. 9 4. 0	11. 9 4. 0	072 70	B C E	1. 2 0. 0 1. 8	1.2 0.0 1.8
03 5B	B C E B	2. 3 5. 1 1. 7 4. 6	2. 3 5. 1 1. 7 4. 6	024 4F:022 , Q23	B C E	3. 3 11. 9 2. 9	3. 3 11. 9 2. 7	047 2B	B C E	4. 7 7. 5 4. 2	4. 8 7. 5 4. 2	973 70	B C E	1 <u>1</u> . 8 3. 6	11.9 13.7
	B C E B	4. 6 5. 1 4. 2	4. 6 5. 1 4. 2	925 4F	BCE	11. 9 2. 9	1 ³ . ³ 1 ¹ . ⁹ 2. ⁷	048 IB	BCE	17: 4 17: 9 7: 1	17: 4 17: 9 7: 1	074 7B	BCE	3. 6 7. 3 3. 0	3.6 7.2 3.0
04 6C	B C E	3. 9 5. 1 3. 3	3. 9 5. 1 3. 2	026 3B	B	1. 3 0. 0 2. 0	1. 3 0. 0 2. 0	049 ÎA	BCCE	7. 1 9. 8 6. 2	7. 1 9. 8 6. 2	975 7B	BCE	11. 8 7. 6	8.2 11.9 7.6
05 5D: R120	BCE	3. 2 0. 0 3. 8	3. 2 0. 0 3. 8	027 3B	BCE	1. 9 5. 2 1. 3	1. 9 5. 2 1. 3	050 2A	BCE	1. 5 6. 2 0. 8	1. 5 6. 2 0. 8	076 8B	BCE	13. 6 11. 8 3. 0	3.6 11.9 3.0
Q6 50	B C E	0. 7 5. 1 3. 6	0. 7 5. 1 3. 6	029 3D	BCE	1.5	1. 5 0. 0 2. 2	052 120	BCE	2. 6 3. 4 2. 0	2. 8 3. 3 1. 9	077 12F; 078	BCE	1. 4 4. 2 0. 8	14
97 5D; Q6, Q8	B C E	3. 6 0. 7 0. 0	3. 6 0. 7 0. 0	030 3G	BCE	5. 3 0. 0 0. 0	5. 3 0. 0 0. 0	Q53 I3B	BCE	2. 0 2. 2 5. 1 1. 7	1. 9 2. 2 5. 1 1. 6	078 12E	B C E	0. 8 4. 2 5. 1 3. 6	42 516
Q8 5D	B C E	0. 7 4. 6 0. 0	0. 7 4. 6 0. 0	031 2G	E B C E	0. 0 11. 9 2. 4	0. 0 11. 9 2. 4	054 130	E B C E	1. 7 2. 2 5. 1 1. 7	1. 6 2. 2 5. 1 1. 6	079 9B	E B C E	3. 6 2. 1 5. 2 1. 5	3.6 2.1 5.2 1.5
09 40	B C E	11. 9 8. 3	8. 9 11. 9 8. 3	032 2F	E B C E	3. 7 11. 0 3. 2	13. 8 11. 0 3. 2	055 14B: R291	E B C E	1. 7 2. 4 5. 1 1. 8	1. 6 2. 6 5. 1 1. 9	080 10C	E B C E	3. 8 4. 9 3. 2	3.8 4.9 3.2
010 40	B C E	8. 3 0. 0 8. 9	8. 3 0. 0 8. 9	033 IF								Q81 9B	-		
Q11 4D: Q8, Q13	B C E	12. 0 5. 7	12. 0 5. 7	034 IE	B C E B	11. 0 6. 1 11. 6	11. 0 6. 1 11. 6	058 15D; 059 059 16D	B E B	1. 8 2. 4 2. 4	1. 3 2. 4 2. 4 1. 6	98 982 IIC	B C E	2. 3 0. 0 2. 8	2.3 0.0 2.8
012 6D	B C E	6. 1 12. 0 5. 5	6. 1 12. 0 5. 5		B C E B	4. 6 11. 9 4. 0	4. 6 11. 9 4. 0		B C E	1. 7 2. 4 2. 4	1. 6 2. 4 2. 4		B C E	1. 9 0. 0 2. 6	1.9 0.0 2.6
	<i>.</i>	5.0	0.0	035 2E	B C E	4. 7 7. 4 4. 1	4. 7 7. 5 4. 1	Q60 Î5D; Q61	B C E	2. 6 1. 3 0. 0	1. 6 0. 0	083 11D	BCE	4. 0 5. 2 3. 3	4.0 5.2 3.3
														-	

— DC Voltage (2/2) —

SYMBOL		REC REC	PB	SYMBO	L No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	РВ
084 11D	B C E	1. 8 3. 4 1. 2	1. 8 3. 4 1. 2	CN1	16B 17A	0. 0 0. 0	0. 0	BURS			RCUIT	Q509	BCE	4. 1 4. 9 3. 5	4. 1 4. 9 3. 5
086 15F	B C E	1. 2 1. 5 2. 8 0. 0	2. 0 2. 7 0. 0		16B 17B 17B 18B 199B 190B 201A 21B 22B	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	IC501				Q 510	B C E	2. 2 4. 9 1. 7	2. 2 4. 9 1. 7
087 13D	B C E	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0		20A 20B 21A 21B	0. 0 2. 0 0. 3 1. 3	0. 0 2. 0 1. 3	e de la companya de l	12345678	3.07000960 3.03420.0	3. 0 0. 1 3. 0 3. 0 9. 7 0. 0	Q511	B C E	4. 5 0. 2 0. 0	4. 5 0. 2 0. 0
088 12E : C274	B C E	3. 5 4. 0 2. 9	3. 5 4. 0 2. 9	CN2	200 100		- 10000	IC502				Q512	B C E	0. 2 0. 2 0. 0	0. 2 0. 2 0. 0
089 12D	BCE	4. 0 5. 1 3. 4	4. 0 5. 1 3. 4		2Ã 2B 3A 3B	0. 0 0. 0 0. 0 2. 4 0. 0 7. 0	0. 0 2. 0 0. 0 6. 9		12345678	3.13333420.	3.13333420	Q513	B C E	0. 1 0. 2 0. 0	0. 1 0. 2 0. 0
090 12D; 089	BCE	4. 0 5. 1 3. 4	4. 0 5. 1 3. 4		4A 4B 5A	2. 6	0. 0 2. 6 0. 0	IC503	-		-				
991 12B	B C E	4. 8 5. 1 4. 2	4. 8 5. 1 4. 2		112233445566778889900112455667788899001124884848484848484848484848484848484848	2000-1040015121000040208100810083039030000	0.20409060203092		1234567-890-23456	0.79052809909-2909	0.7901528809090290902909				
092 70: R449	B C E	13. 7 11. 8 3. 1	11.9 13.1		8A 8B 9A 9A	0.00	-		8 9 10	4. 8 0. 0 4. 9 0. 0	4. 8 0. 0 4. 9 0. 0				-
093 8B	B C E	11.8 13.6	4. 2 1 <u>1</u> . 9 3. 6		10A 10B 11A 11B	12.0	12: 0 0: 0 0: 0		12 13 14	4. 1 0. 2 4. 9	4.00				
094 11D	B C E	1. 8 4. 0 1. 2	1. 8 4. 0 1. 3		12A 12B 13A 13R	0. 0 4. 7 0. 0 2. 9	0. 0 4. 7 0. 0	IC504	+	-					
9 95 15E	B C E	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0		14A 14B 15A 15B	0. 0 5. 2 0. 0 1. 8	0. 0 5. 2 0. 0 1. 8		12345678	333042200 0.	33042200	-			
096 11E	B C E	0. 4 0. 0 0. 0	0. 4 0. 0 0. 0		16A 16B 17A 17B	0. 1 0. 0 0. 0 3. 8	0. 1 0. 0 0. 0 3. 8		200		1				
097 13D	B C E	0. 0 0. 6 0. 0	0.0		18Ã 18B 19A 19B	50.53	5552500000707020810083031030000 555250000402050100035050050000	IC505	12345	0. 0 0. 4 0. 0 4. 6 4. 9	0. 0 0. 4 0. 0 4. 6 4. 9	and the second s			
098 15E	B C E	2. 4 5. 1 2. 0	2. 4 5. 1 2. 0		20A 20B 21A	0. 0 5. 0 0. 0	0. 0 5. 0 0. 0	TF	RAN		0 R	}			
	ONI				21B 22A 22B	0. 0 0. 0	0. 0 0. 0	Q 501	BCE	2. 4 3. 2 1. 8	2. 4 3. 2 1. 8				
CN1	1A 1B 2A 2B 3A	0.0	$\begin{bmatrix} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{bmatrix}$	CN3	1 2 3 4	0. 0 0. 0 5. 3 5. 3	0. 0 0. 0 5. 3 5. 3	Q502	BCE	1.8 0.0 2.1	1.8 0.0 2.1				
	3B 4A 4B 5A	0.00 0.00 0.00 0.00 0.02 0.02 0.02 0.04 0.00	0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 4. 2 0. 0 0. 2 0. 0 0. 4		12334567899 1011	0.033369991000	4.9 0.1 0.1 0.0 0.0 0.0	Q503	B C E	2. 1 4. 9 2. 4	2. 1 4. 9 2. 4				
	5B 6A 6B 7A	0. 0 0. 0 4. 2 0. 0	0. 0 0. 0 4. 2 0. 0	ONA	1000			Q504	B C E	2. 1 3. 8 1. 5					-
	7B 8A 8B 9A	0. 2 0. 0 0. 4 0. 0	0. 2 0. 0 0. 4 0. 0	CN4	1234567 899 10	0. 0 2. 0 0. 0 0. 4 0. 4 0. 0 3. 4 0. 0 1. 7	0. 0 2. 0 0. 0 0. 4 0. 4 0. 0 3. 4 0. 0 1. 7	Q505	B C E	3. 8 4. 9 3. 6	3. 8 4. 9 3. 5				
	10A 10B 11A	5. 3 5. 2 0. 0	5. 3 5. 2 0. 0		67	0. 0 3. 4 0. 0	0. 0 3. 4 0. 0	Q506	B C E	2. 3 4. 9 2. 1	2. 3 4. 9 2. 1			,	
	12A 12B 13A	0.00 0.00 5.00 5.00	0: 0 0: 0 0: 0 9: 0		10	Y. 7		Q507	B C E	1.6 4.0 1.3	1.5 4.0 1.3				
	112233344555667788898ABABABABABABABABABABABABABABABABABA	5:50:00:00:00:00:00:00:00:00:00:00:00:00	5.3200.0000.0000.00000.00000000000000000					Q508	B C E	4. 8 4. 9 4. 1	4. 8 4. 9 4. 1				

4.23 BURST ADD CIRCUIT BOARD

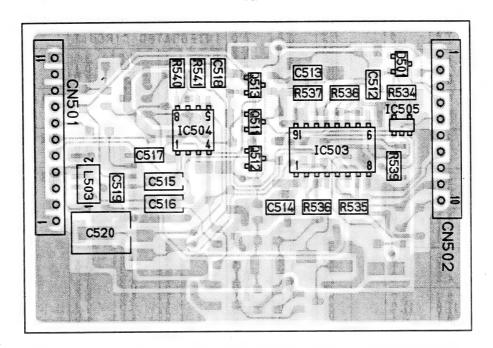
6

5

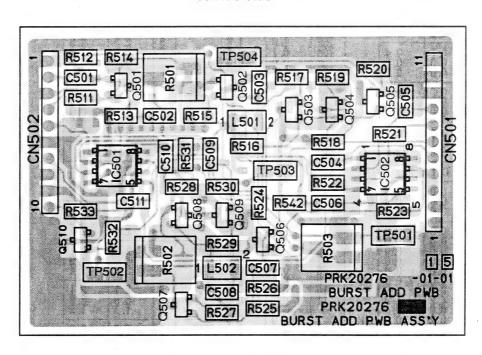
3

2

- SOLDER Side -



- PARTS Side -



- MAIN WAVEFORMS OF BURST ADD CIRCUIT -

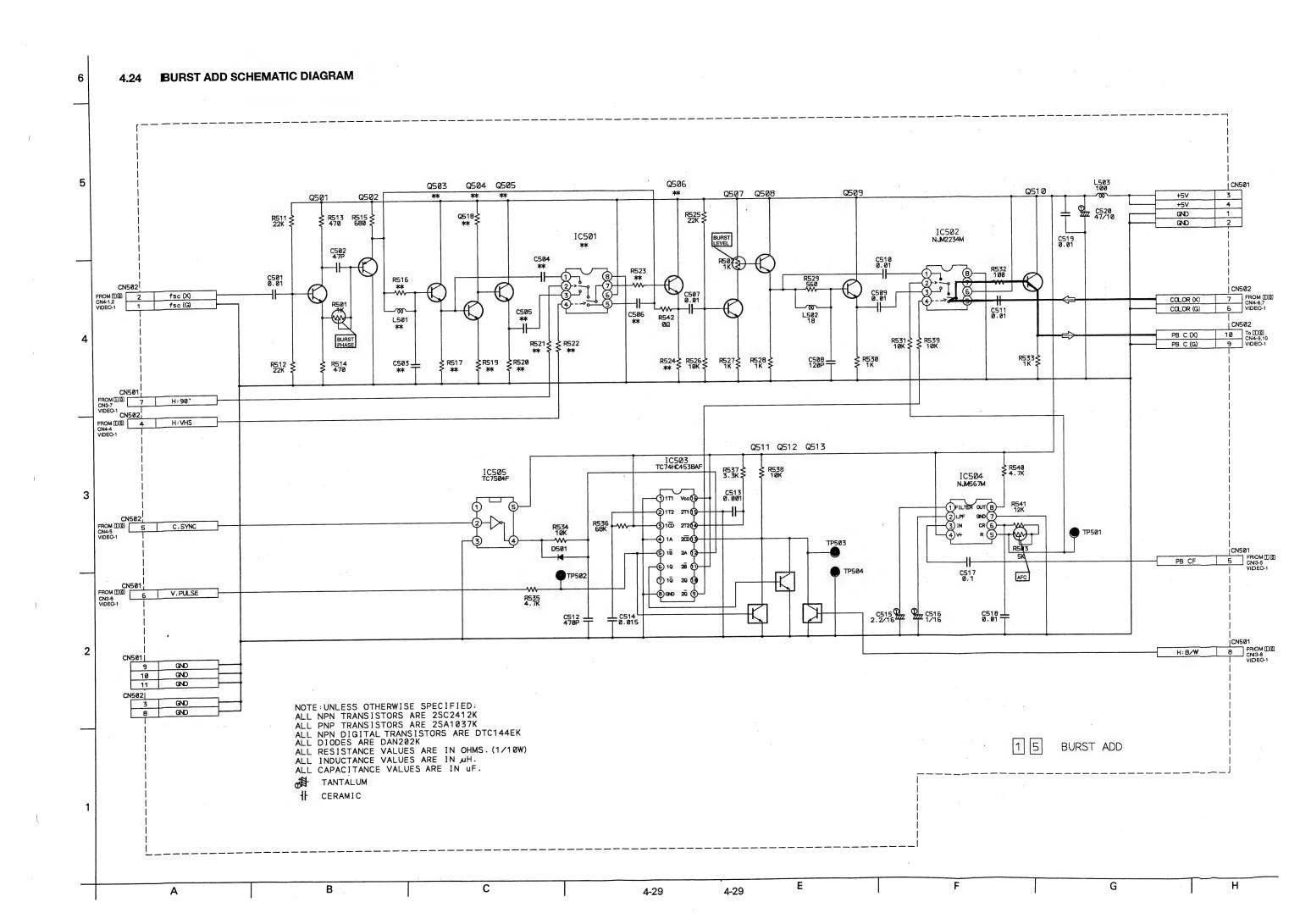
TP501	TP502	TP5-3
		- · · · · · · · · · · · · · · · · · · ·
7		
[REC]	[REC]	[REC]
3.6 Vp-p/7.8 kHz	4.8 Vp-p/50 Hz	4.9 Vp-p/50 MHz
– S-VHS –	– S-VHS –	- S-VHS -

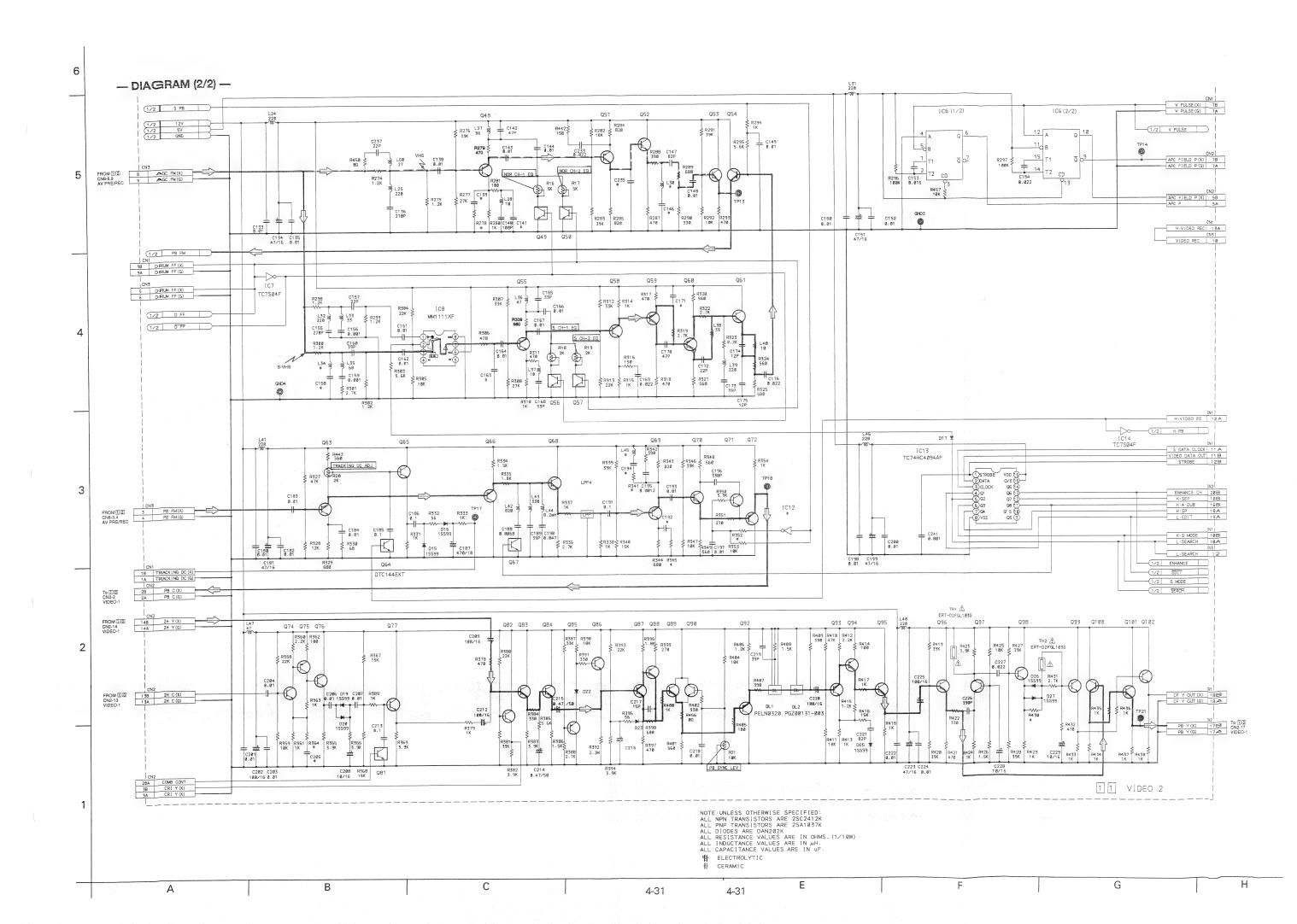
4-28

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D





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4

3

2

R132 (09) R121 R129 C17 R199 C3 R106 R 6 R C29 C25 R146 R137 C24 R136 P P P P [C27] R135 [GT]
[C28] 27 27 [C34]
[R147] 65 66 R134 R119 Q7 R104 R178 C73 PC R279 (1) (05) (1) (2) (2) [D] R357 R269 R263 R269 R263 R269 R263 R305 2 R317 R303 P C171 R188 R334 R243 C114 R220 R219 R440 C106 O CI R R218 003 C94 C93 C96 C96 \$23 \$\bar{\chi}\$ \$ R344 Q72 C192 C(50) R453 R320 F R R324 R235 C175 C176 R294 C149 R258 Q²2 N R239 Q³8 C123 Q³8 R242 R238 R150 R149 RIGIT QUOS C38 C34 R355 C40 R160 C230 C49 C51

(PRK20263-01-02)

- MAIN WAVEFORMS OF VIDEO-2 CIRCUIT -

1	P1	Т	P2		ГР3	TP4,	TP5	TP6	TP7	TP8	7	ГР9
[REC] 0.6 Vp-p – VHS –	[PB] 0.5 Vp-p – MHVE-2 –	[REC] 0.4 Vp-p – S-VHS –	[PB] 0.35 Vp-p – MHVE-2H –	[REC] 0.6 Vp-p - S-VHS -	[PB] 0.5 Vp-p – MHVE-2H –	IREC] 0.45 Vp-p – S-VHS –	[REC] 0.5 Vp-p – VHS –	[REC] 0.48 Vp-p – S-VHS –	[PB] 1.5 Vp-p – MHVE-2H –	[REC] Upper: VIDEO OUT Lower: TP8	[REC] 0.99 Vp-p – S-VHS –	(REC) 0.8 Vp-p – VHS –
T	212	TF	P13	TP14	TP18		The state of the s					
[REC] 0.5 Vp-p – S-VHS –	[REC] 0.5 Vp-p – VHS –	[PB] 0.27 Vp-p – MHVE-2H –	[PB] 0.35 Vp-p – MHVE-2 –	- [REC] 5.3 Vp-p/50 Hz - S-VHS -	[PB] Burst level: 0.05 Vp-p - S-VHS -							

4-32

4-32

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G

— DC Voltage (1/2) —

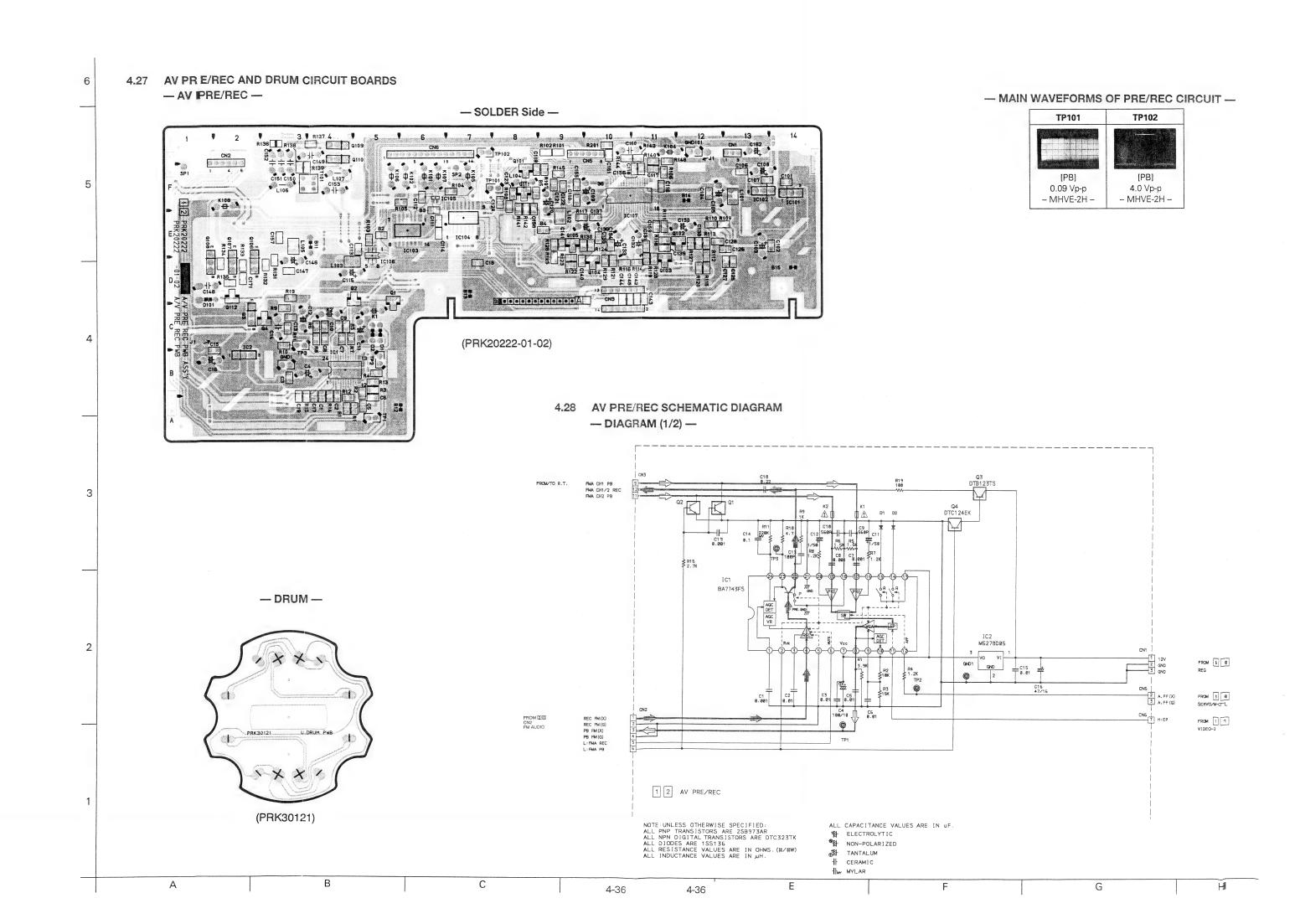
SYMBOL !	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB
INTEG	RAT		RCUIT	IC5 8F	123345	0. 0 5. 0 0. 0 5. 3	0.0 5.0 0.0 5.3	03 ÎÎF	BCE	10. 9 5. 5 11. 6	10. 9 5. 5 11. 6	025 9E	BE	2. 6 5. 0 2. 0	2. 6 5. 0 2. 0
IC1 ISF	234	0.14 3.4 3.4	15:33:44 444	ICC	-			04 fif	BCE	5. 5 11. 9 4. 9	15. 5 12. 0 4. 9	926 9F	BCE	5. 3 0. 0 0. 0	5. 3 0. 0 0. 0
	26 7 80	5225- 525-	321215	IC6 7D	23345	5.00 0.00	5. 3 0. 0 0. 2	05 13F	BCE	1. 8 3. 9 1. 2	1.8	027 8E	BCE	5. 3 0. 0 0. 0	5. 3 0. 0 0. 0
	10 12 13	2220	2220		967-89	0.30 5.04.	0.3 5.0 4.9	Q 6 12E	BCE	0. 1 0. 0 1. 2	2. 0 1. 4 1. 3	028 8E	B C E	0. 0 0. 0	0. 3 5. 3 0. 0
	1207450678000-2004506780	0144020001500000000000000000000000000000	001440000000000000000000000000000000000		12034567-8000-230456	000000000000000000000000000000000000000	0500020300443233003	07 13E	B C E	1. 2 0. 0 1. 8	1. 4 0. 0 2. 0	030 7F	BCE	<u></u>	0.0
IC2 15B							0. 0 5. 3	08 14F	B C E	1.8 3.9 1.2	1.8 1.2	931 7E	B C E	-0.0 0.0	0. 0 0. 0
	1234567890-234	0600000041431490	060000009419991900 0200000000000000000000000000000	IC7 8G	12345	$ \begin{array}{c c} \hline 0.0 \\ \hline 0.0 \\ \hline 5.3 \end{array} $	0. 0 5. 3	09 14G	BCE	0. 1 1. 2	2. 1 1. 4	932 70	B C E	0. 0 0. 0 0. 0	8: 8 8: 8
	8 10	0.4 5.4 2.4	0.74	IC8	-			010 14G	BCE	1. 2 0. 0 1. 8	1. 4 2. 1	933 7E	BCE	0 . 2 5 . 0 0 . 0	1. 8 3. 7 1. 3
	11 12 13 14	5. 1 0. 9 0. 0	5. 1 0. 9 0. 0		12345678	6.57 6.00 0.00 11.80 0.00	6.2.6.0.0.6.80 1.5.0.0	011 14E	BCE	0. 8 0. 0 1. 4	0. 8 0. 0 1. 4	034 10F	B C E	5. 2 0. 0 0. 0	5. 2 0. 0 0. 0
IC3 9E	1 2 3	2. 5 2. 5 3. 0	2. 4 2. 2 3. 0	IC11 12D	-		Į.	012 150	BCE	1. 6 2. 5 1. 0	1. 6 2. 5 0. 9	035 13D	BCE	11. 6 5. 2	15. 8 11. 6 5. 1
	567	25.600-7-2500	42000-1701000 212102102102100	120	12345	0. 0 4. 0 0. 0 0. 0 5. 3	0.0 0.0 0.3 5.3	013 15D	BCE	2.62 5.5 2.5	3. 1 5. 2 2. 4	036 13D	B C E	4. 1 0. 0 4. 8	4. 1 0. 0 4. 8
	8 10 11			IC13	1 2 3	0. 0 0. 0 <u>0</u> . 0	0. 0 0. 0 0. 0	014 3F	B C E	2. 1 0. 0	8: 8	037 130	BCE	11. 6 17. 6	18. 2 11. 6 7. 6
	12 13 14 15	3. 2 0. 4 0. 1 0. 0	30000243240325		123345678890-123456	000000000000000000000000000000000000000	000000000000000000000000000000000000000	015 2F	BCE	2. 2 0. 0 0. 0	8:8	038 13C : Q37	BCE	4. 0 8. 2 3. 4	4. 0 8. 2 3. 4
	16 18 19		24.37 2.00	-	10 10 11	0. 0 0. 0	8. 8 8. 8 9. 8	016 20	BCE	4. 2 8. 4 3. 6	4. 2 8. 4 3. 6	039 14D	BCE	11. 8 11. 6 5. 2	11. 8 11. 6 5. 2
	20 21 22 23	0. 0 3. 4 5. 0	0. 1 3. 2 5. 0		134	000000	03003 0505 5	017 20	BCE	8. 4 9. 0	8. 4 2. 9 9. 1	040 14D	B C E	4. 4 0. 0 5. 1	4. 5 0. 0 5. 1
	25 26 27	NO STATE	0. 0 0. 0 1. 0	IC14 8G	10 1 23 4 5	0. 0 5. 3 0. 0 0. 0 5. 3		018 28	B C E	12. 9 12. 0 2. 7	12. 9 12. 3	041 13D	B C E	11.6 17.6	11.6 11.6 7.6
	28 30 31	3. 2. 2. 2. 5. 6. 6. 5. 6. 6. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	8: 1 0: 1 0: 3	IC15	-		0. 0 0. 0 5. 2 5. 3	919 110	BCE	5. 2 12. 0 4. 6	12. 0 4. 6	042 13C :041	BCE	4. 0 8. 2 3. 4	4. 0 8. 3 3. 4
	12374567-8090-12374567-8090-12374567-8090-12374567-8090-12474	600+040666777865665780000000000000000000000000	000/	IC15 8D	1234567-8	24.2000 520.005 1005 2000 24.2000 2000 24.2000 2000 2000 200	24200000	920 120	B C E	11. 2 5. 2 11. 8	11. 2 5. 2 11. 9	044 6E	B C E	1 ^{3.7} / _{3.2}	11.7 11.2 3.1
	37 38 39	9206 933526	3000000					921 f1c	E	11.2 11.2 1.9	11. 2 11. 9	045 6F	B E E	11. 2 3. 9 11. 8	11. 2 3. 8 11. 9
	41 42 43	3030c	10.100 (A.100)	O1 TOF	BCE	\$ I S T 14.8 4.8	0 R 12. 0 4. 8	022 TIE	BCE	1. 6 2. 2	1. 4 2. 1	046 6F	B C E	12. 9 12. 9 3. 9	12. 8 12. 0 3. 2
IC4 96	_			02 10F	BCE	14. 8 10. 9 4. 8	4. 8 10. 9 4. 3	023 7E	BCE	5. 3 1. 1 5. 2	5. 3 5. 2	047 6E	B C E	5. 2 0. 0 0. 0	5. 2 0. 0 0. 0
	120345	0.03 0.00 0.30 0.33	0.03 0.03 0.03 5.33	IUr	Ē	4. 8	4. 3	924 9E	B C E	0. 2 4. 9 0. 0	0. 2 4. 8 0. 0	048 2F	B C E	5. 0 7. 9 4. 4	5. 1 8. 0 4. 5

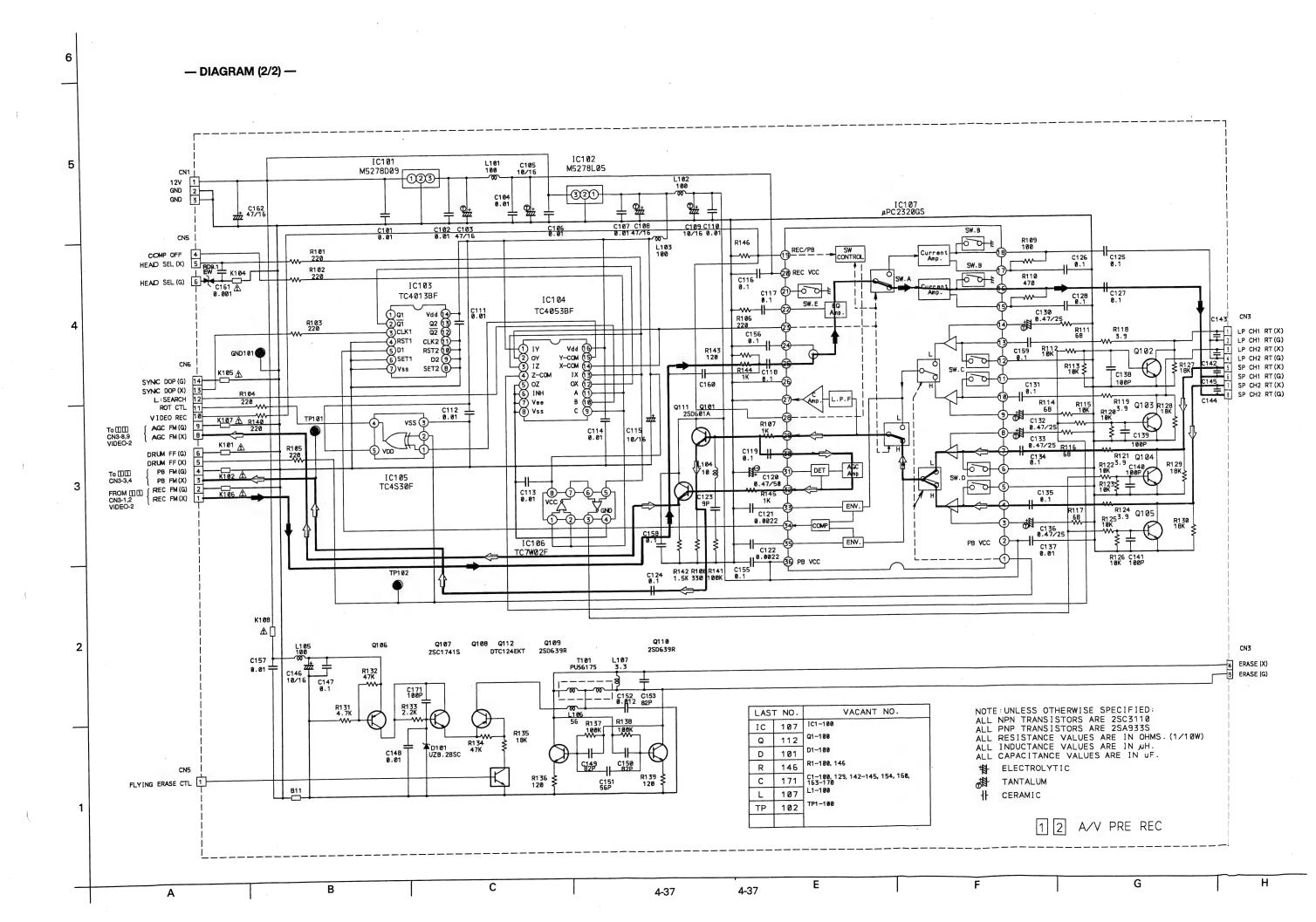
— DC Voltage (2/2) —

SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBO		REC	PB
049 4F	B C E	0. 0 0. 0	0. 0 0. 0	971 50	BCE	2. 4 1. 8 1. 8	2. 4 1. 8	097 50	BCE	1.5 1.0	1.5 1.8	CN1	21B 22A 22B	2. 3 0. 0 2. 0	0. 3 2. 0
050 3F	BCE	0. 0 0. 0	0.0	072 50	BCE	1. 8 0. 0 2. 4	1.8 0.0 2.4	998 6C	BCE	5. 6 11. 7 5. 7	5. 6 11. 7 5. 0	CN2	1A 1B 2A	0.00 0.04 0.20 7.00	0. 0 0. 0 9. 0
051 2E	B C E	8. 1 2. 8 8. 8	8. 2 2. 8 8. 8	973 10F	BCŒ	2.3 0.5 2.5	5. 2 0. 0 2. 4	099 50	EXCXEI	5. 0 11. 7 4. 4	11. 7 4. 4		3A 3B 4A	00040006000	00040926020
052 20	B C E	12. 8 11. 6 2. 2	11. 6 2. 5	074 100	BCE	11. 8 11. 0 3. 8	13. 8 13. 0	9100 4B	BCE	14.8 14.2	14.9 14.2		5A 5B 6A	6.0 0.0 0.0	000409260203
053 2D	BCE	11. 6 3. 4	11.6 3.4	075 10B	BCE	11. 0 6. 1 11. 6	11. 0 5. 9 11. 6	0101 5B	BCE	11. 7 13. 7	11.7 3.7		7A 7B 8A	0.4 0.4 0.0	
054 2D	B C E	11. 6 3. 4	13. 9 11. 6 3. 3	076 10B	BCE	6. 1 11. 9 5. 8	1 <u>5.</u> 9 1 <u>1</u> . 9 5. 3	0102 5B	BCE	11. 7 3. 7	11.7 3.7		9A 9B 10A	955525 126	0922233000
955 3D	B	5. 1 7. 2 4. 5	5. 1 7. 2 4. 5	077 9B	BCE	11.9 15.6	1 <u>5</u> . 9 1 <u>1</u> . 9 5. 3	0103 10D	BCE	0. 0 0. 0 0. 5	0. 0 0. 0 0. 3		11223344BABABABABABABABABABABABABABABABABABA	040000000000000000000000000000000000000	
056 5F	BCE	8:8	8:8	081 9B	B C E	0. 0 0. 1 0. 0	0. 0 0. 0 0. 0	0104 6D	BCE	0. 0 0. 0 0. 5	0. 0 0. 0 0. 3		13A 13B 14A	40000 30000	006080907
057 4F	BCE	8:8	8:8	082 80	BCE	11. 5 11. 9 7. 0	17. 5 6. 9	0105 2B	BCE	0. 0 0. 0 0. 7	0. 0 0. 0 0. 3		15A 15B 16A	0.7	1. 1.
058 3D	BCE	4. 6 7. 7 4. 0	4. 6 7. 7 4. 0	083 80	BCE	17.5 17.5 7.0	17. 5 11. 9 6. 9	0106 9D	BCE	1. 8 0. 0 2. 5	2. 0 0. 0 2. 6		17A 17B 18A		10073031-030000 00031301500150000
059 3E	BCE	7. 7 3. 3 8. 3	7. 7 3. 3 8. 3	084 8C	BCE	11. 9 6. 3	11. 9 6. 3	0107 8D	BCE	5. 2 0. 0 0. 0	5. 2 8. 8 8. 8		19A 19B 20A	0.54.0.0 0.54.0.0	9500 G
060 3D	B	8. 4 2. 6 9. 0	8. 4 2. 6 9. 0	085 8B	BCE	0. 9 0. 0 1. 6	0. 9 0. 0 1. 6	C CN1	ONN 1A				21A 21B 22A	3: 0 2: 0 0: 0	0000
961 4D	B C E	11.6 8.3	11.6 8.4	986 78	BCE	11. 9 2. 2	1 <u>1</u> . <u>9</u> 2. <u>9</u>		2A 2B 3A	0. 0 0. 0 0. 0	0.08 0.34 0.4	CN3		0. 1 0. 0 0. 0	0.0
062 12D	B C E	0. 1 4. 0 0. 0	8: 1 8: 0	087 7C:Q86	B C E	10. 6 1. 6	10.6 1.6		38 48 58	0. 0 0. 0 0. 0	0. 4 0. 4 0. 4 0. 0		-000400-00	0.0	$\frac{0}{0}$
063 5E	B C E	2. 4 8. 9 1. 8	2. 4 8. 9 1. 8	988 70	BCE	10. 6 3. 3 11. 2	10. 6 3. 3 11. 2		6A 6B 7A	0.0 4.2 0.0	0. 0 4. 2 0. 0		8 10	3. 2 0. 0 5. 0	03200
064 4F	BCE	5. 0 0. 0 0. 0	0. 0 0. 0	989 60	BCE	11. 9 2. 8	1 <u>1</u> . <u>9</u> 2. 7		8A 8B 9A	0. 2 0. 4 0. 4 0. 0	0. 2 0. 4 0. 4 0. 0		10 12 13 14	5. 3 0. 8 0. 0	500
965 4F	B C E	11. 7 8. 3	18. 9 11. 7 8. 3	090 6B	BCE	11.9 2.9	1 <u>1</u> .9		10A 10B 11A	4556	4555 6				
066 5E	BCE	8. 9 0. 0 9. 5	8. 9 0. 0 9. 5	092 6B	B C E	2. 7 0. 0 3. 4	2. 7 0. 0 3. 4		12A 12B 13A	950 50 5. Q	8. 0 9. 0				
067 5E	BCE	0. 0 0. 0 0. 0	8. 8 0. 0	993°	B C E	11. 0 2. 9	13. 3 11. 1 2. 7		14A 14B 15A	0. 0 3. 4 0. 0	0. 0 3. 4 0. 4				
068 50	BCE	9. <u>5</u> 11. 7 8. 9	18. 5 18. 9	094 3C	B C E	11. 0 5. 5 11. 7	11. 1 5. 5 11. 7		16A 16B 17A	0. 0 0. 0 0. 0	0.3				
069 4D	BCE	3. 2 8. 7 2. 6	3. <u>2</u> 8. <u>7</u> 2. 6	095 4C	B C E	5. 5 1 <u>1</u> . 9 5. 0	11. 9 4. 9		4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B4BA	00000000000000000000000000000000000000					
97O 50	BCE	10. J 10. 7	10. J 1. 7	096 4B	BCE	5. 5 11. 7 4. 8	1 ^{5. 5} 1 ^{1. 7} 4. 8		20A 20B 21A	0. 0 2. 0	0. 3 2. 0 0. 3				

(PRK20263-01-02)

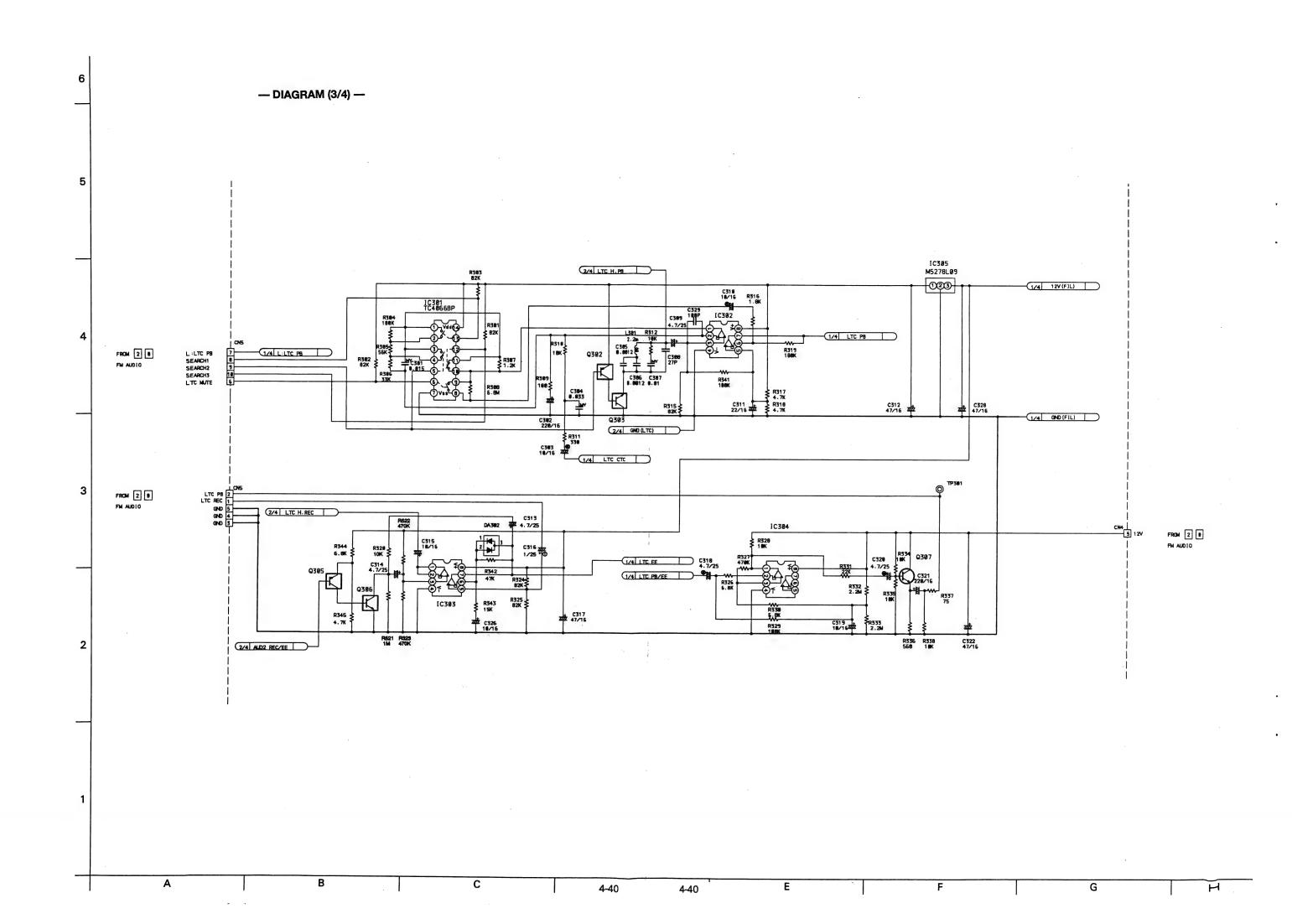
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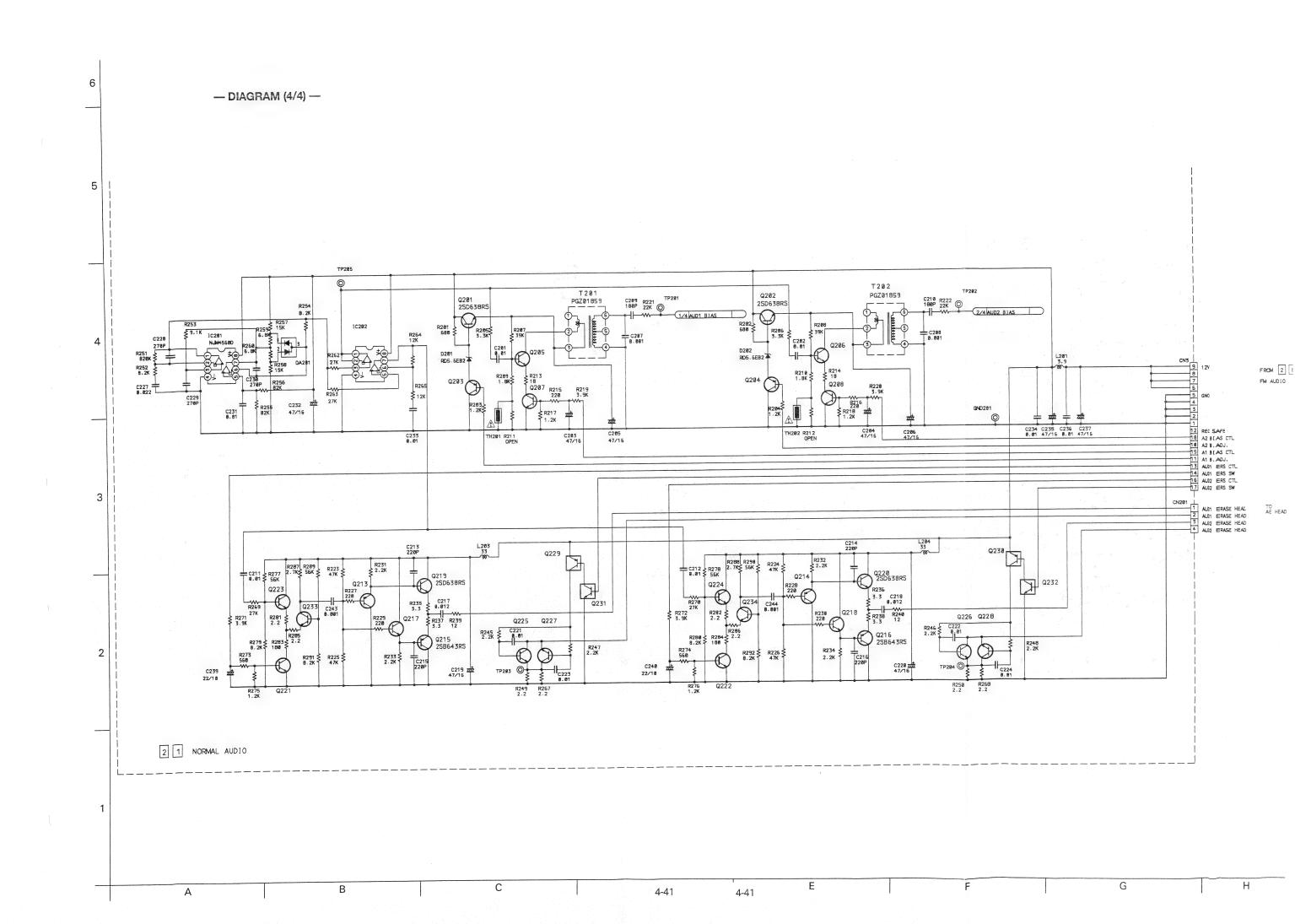




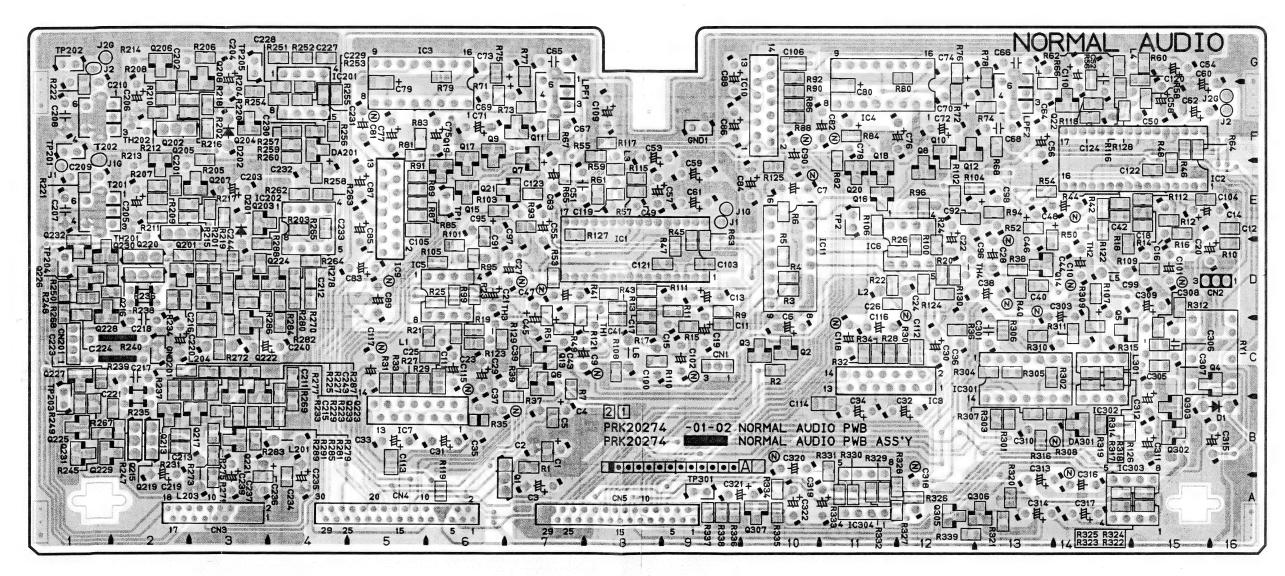
4-38

G





- SOLDER Side -



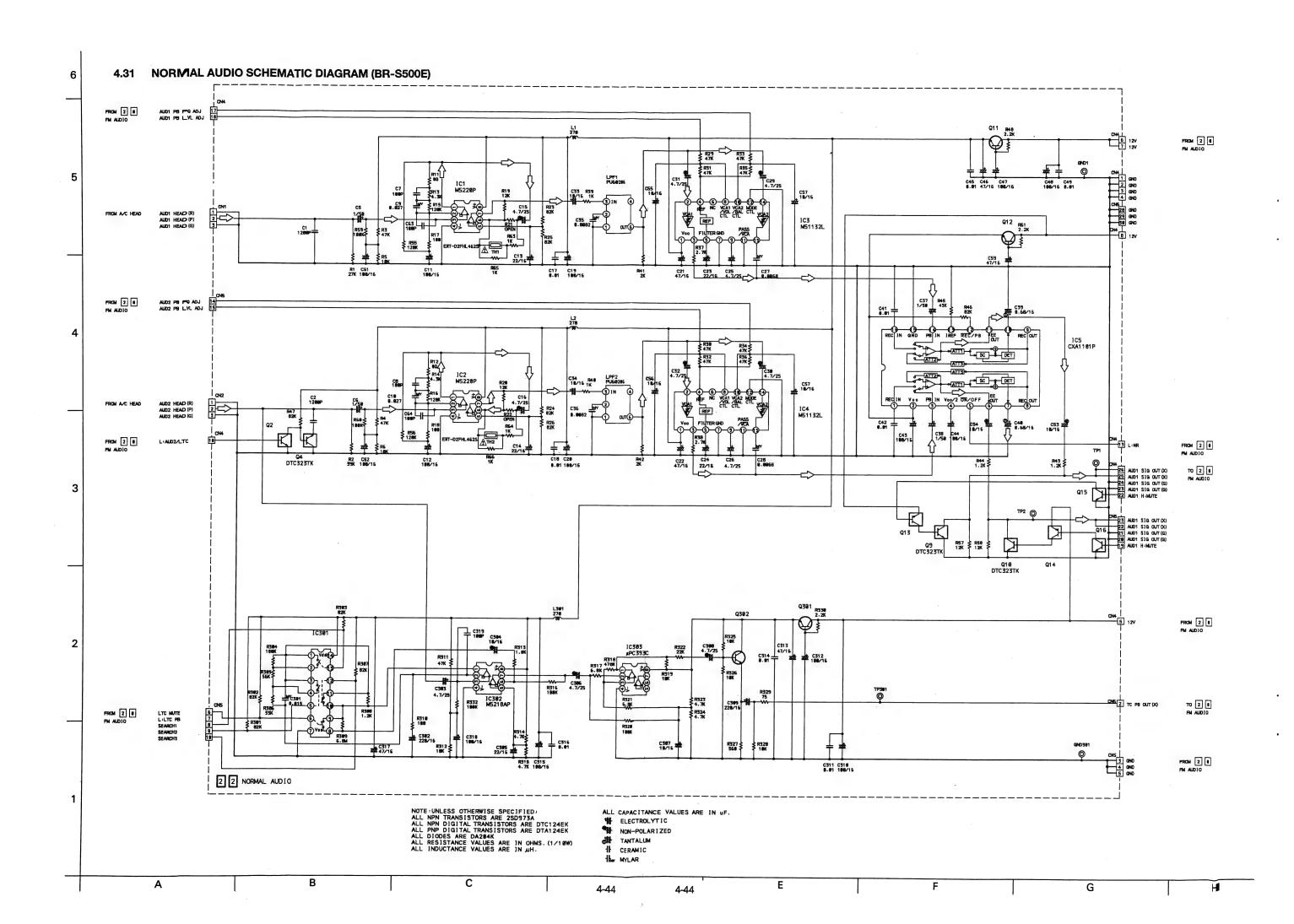
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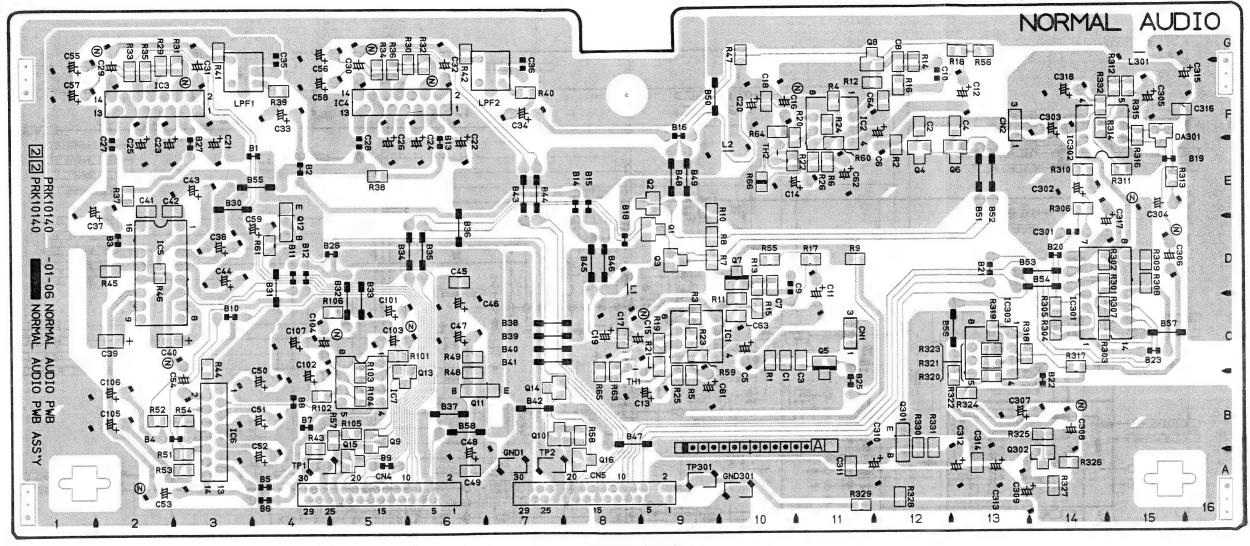
A B C 4-42 E F G H

— DC Voltage —

SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL		REC	PB
INTEG			RCUIT Q. Q	IC4 IIF	6 7 8	5. 4 0. 4 5. 3	5. 4 0. 4 5. 3	IC11 10D	123	<u>4.1</u> 5.1	-4.1 5.1	04 15C	BCE	12. 0 0. 0	12. 0 0. 0
IC1 8D	2345	9. 4 0. 0 2. 1	6. (0. 0 2. 1		10 12 12	5055050	5. 4 5. 1		567	5. † 0. 0 0. 0	5. 1 0. 0 0. 0	05 14C	B C E	0. 8 0. 0 0. 0	8:8
	67 80	2. 1	2. I 2. I 0. 0		67-800-1207456	4455545000505 505505050-505	50550551505		8 10 11	55500002221-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	10.2 10.2 10.2	96 70	B C E	5. 1 0. 0 0. 0	5. 1 0. 0 0. 0
	10 12 12	0. 0 0. 0 0. 7 7. 7	5. I 0. 0 0. 0	IC5 6D	+				1237456780001237456	4. 1	555000022221 1000022221 100044444 1000	97 7E	B C E	11. 9 0. 0	12. 0 0. 0
	14 15 167	4.9	4.8		12345678	2220022223 10:00:00:00:00:00:00:00:00:00:00:00:00:0	555505555 10:	IC201 4F	+			08 12E	B C E	11. 9 0. 0	12. 0 0. 0
	120745567-80001-20745567-80901-207345567-80901-2074567-80901-2074567-807567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-80901-2074567-8000000000000000000000000000000000000	040-11-11-2007797790000056-1-033-40	070-1-1-1-0-100698888000005560009999020	IC6 12D	+				12345678	6.53 6.56 6.60 12.0	6. 0 5.6. 0 6. 0 6. 0 12. 0	09 6E	B C E	11. 9 0. 0 12. 0	12. 0 0. 0 12. 0
	223 23 24 25	8.55 9.56	8.5 9.5 3.6	125	12345678	555665555	2220022223 5:5:5:0:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5	IC202 4E	+			010 12E	BCE	11. 9 0. 0 12. 0	12. 0 0. 0 12. 0
	26 27 28	10. 1 10. 0 10. 3	0.0 0.0 10.3	IC7	+			-	12345678	6.00 6.60 5.66 6.20 12.0	6.6.6.0.6.6.6.2.0 12.0	011 7F	BCE	8.8	0. 0
	30 31 32	10. Y 9. 4 0. 0	10. 0 9. 2 0. 0	IC7 5B	123456789901234	10.445003040046 10.00303040046	10.34051000203000 10.00203000 10.00203000		+			012 12F	BCE	0. 5 0. 0	0. 0 0. 0 0. 0
IC2 I4E	1 2 3	0. 0 9. 3 0. 0	0. 0 6. 8 0. 0		67	0. 0 3. 3	0.0 0.0 3.2 0.0	IC301	12345678901234	5555000	55555000000000000000000000000000000000	913 70	BCE	0. 0 0. 0	0. 0 0. 1 0. 0
	567	0.30 1 1 1 1 000007	50000		10 12 13	3. 4 0. 0 0. 0	3. 3 0. 0 0. 0		5678			014 13D	BCE	0. 0 8. 8	0. 0 8. 8
	10 10	0. 0 0. 0 0. 0	5. d 5. d 0. d	IC8			10.3		10 10 12	5. 1 5. 2 10. 2 10. 3	5. 1 5. 1 10. 2 10. 3	015 6E	BCE	11. 9 0. 0	11.7
	134 156	4.8	0.0 7.4 4.8 4.9 4.9		33456	4. I 5. 5 10. I	4. 1 5. 6 10. 2	IC302	+			016 11E	BCE	11. 9 0. 0	11. 4 0. 0
	123345678901-23345678901-3	0.0	060252525205007444400000		12345678901234	10.4450.003.4600-15 10.003.03.0044	10.445.000000000000000000000000000000000	IC302 14C	12334567	5550555	555665555	017 6E	B C E	11. 9 0. 0 12. 0	11. 9 0. 0 12. 0
	21 22 23	0.00	0.0 0.5 3.6		11 12 13 14	0. 0 4. 1 4. 5	9. 0 4. 1 4. 3		6 7 8	10. 3	10.3	018 11E	B C E	11. 9 0. 0 12. 0	12. 0 0. 0 12. 0
	25 26 27 28	10. I	0.0	IC9 5E				IC303	12345678	5.22 5.50 0.0	555505555 10.	019 6E	BCE	0. 0 8. 8	0. 0 0. 0 0. 0
	12256789012 1222222223333	4:400000056-+-533-150 100000 100000	5600033130 10003 10000 10000		12334567899012334	10.44.50.00.00.00.00.00.44.	10.445.00500200013 10.002.003.0044		5678	555505555 10.	5. 1 5. 1 10. 3	020 11E	BCE	0. 0 0. 8 0. 8	0. 5 0. 0 0. 0
IC3 5F					8 9 10 11	2. 6 0. 0 3. 2 0. 0	2. 5 0. 0 3. 2 0. 0	IC304 IIA	1 2 3	1	1	921 7E	BCE	4. 8 0. 0 0. 0	4. 8 0. 0 0. 0
	567	5. 3 0. 0 5. 4 0. 4	5.3 0.0 5.4 0.4						12345678	0. 0 0. 4 0. 4 0. 0 12. 0	0. 0 0. 4 0. 4 0. 0 12. 0	022 14F	BCE	4. 8 0. 0 0. 0	4. 8 0. 0 0. 0
	8 10 10	5:3343	55343	IC10 10F	1 2 3 4	10. 3 4. 0 4. 0 5. 5	10. 2 4. 0 4. 0 5. 5		RAN	SIST	0 R	0201 2E	B C E	9. 8 12. 0 9. 1	12. 8 12. 0 9. 2
	12345678901233456	200200044000400020000 500000000000000000	200200044000400-20000 5000000000000000-20000		12345678890-2334	10.4-4-50.0004-00005 10.0000000005	10.4.4.5.0000000000000000000000000000000	01 6A	E E	10. 9 12. 0 10. 3	10.9	0202 2F	BCE	12. 0 9. 1	1 <u>8</u> . 5 1 <u>2</u> . 0 9. 1
IC4 IIF	+				10 12 12	0. 0 3. 0 0. 0	0. 0 3. 0 0. 0	02 100	B C E	10.1	10. 0	0203 30	BCE	3. 6 0. 0 4. 3	3. 6 0. 0 4. 3
11.	12345	5. 2 10. 3 5. 2 5. 0	5. 2 10. 3 5. 2 5. 0		13	4. 0 4. 5	4. 0 4. 5	03 10C	B	10. 0 10. 2 0. 0	10. 2 0. 0 0. 0				_,,

SYMBOL	No.	REC	PB	SYMBCL	No.	REC	PB	SYMBOL		REC	PB	SYMBOL		REC	PB
0204 3F	B C E	2. 8 0. 0 3. 5	2. 8 0. 0 3. 5	930 5 15B	B C E	10. 2 0. 0 0. 0	10. 2 0. 0 0. 0	C O		IECT			JB	BOAF	
0205 2E	B C E	0.3 9.1 0.3	0. 6 9. 2 1. 8	0305 12A	B C E	5. 1 0. 0 0. 0	0.0	CN1	1 2 3	0.0	0. 0 0. 0 0. 0	Q1	BCE	11.9	12. 0 12. 3
0206 2G	B C E	0. 3 8. 4 0. 3	0. 5 8. 5 1. 7	0306 13A	B C E	0. 0 0. 0 0. 0	1. 1 0. 0 0. 0	CN3	1 2 3	0. 0 0. 0 0. 0	0. 0 8. 8 9. Q	Q 2	B C E	1. 5 6. 8 1. 2	12. 0 2. 3
0207 2E	B C E	8: 7 6: 0	0.0	0307 10A	B C E	12. 8 12. 0 5. 1	1 <u>5</u> . 8 1 <u>2</u> . 0 5. 2		123456789012345678	000000000000000000000000000000000000000	000000000000000000000000000000000000000	Q3	BCE	8: 7 6: 0	2. 0 2. 0 0. 0
0208 3F	B C E	8: 7 8: 8	0. 0 0. 0						7 89 10	12.0 12.0 12.0	12.0	Q4	B C E	11. 4 11. 9 1. 2	12. § 12. § 2. §
0213 3C	BCE	6. 0 0. 0 6. 0	6: 0 6: 0 6: 7						112 133		3. 6 0. 0 0. 0	Q 5	B C E	1. 5 6. 8 1. 2	12. (12. (2. (
0214 3D	B C E	6. 0 0. 0 6. 0	6. 0 0. 0 6. 7						15 16 7 8	5.	8. 8 8. 8 9. 8	Q 6	B C E	8: 7 6: 0	9. (0. (
0215 3B	B C E	6. 1 0. 0 6. 1	6. 0 0. 0 5. 4					CN4	+		 				
0216 3D	BCE	6. 1 0. 0 6. 1	6. 0 0. 0 5. 4						1-2074567-800-1-2074567-8000-20750785567-8000	0.0000000000000000000000000000000000000	000000000000000000000000000000000000000				
0217 3B	B C E	6. 0 11. 9 6. 1	12. 0 5. 4						8 10 11	12.0 0.0 0.0 0.0	12. 0 0. 0 0. 0				
0218 30	B C E	6. 0 11. 9 6. 1	12. 0 12. 0 5. 4						12 13 14 15	5. 1 0. 0 4. 8 5. 1	5. 1 0. 0 4. 8 0. 0				
0219 20	B C E	6. 2 11. 9 6. 0	12. 0 12. 0 6. 7						$\begin{vmatrix} 16\\ 7\\ 18\\ 19 \end{vmatrix}$	0.0 1.2 1.0 0.0	5. 1 1. 2 1. 0 0. 0				
0220 2D	B C E	6. 1 11. 9 6. 0	12. 0 6. 7						20 21 22 23	1. 0 2. 3 0. 0 0. 0	1. 0 2. 3 0. 0 0. 0				
0225 IB	B C E	0. 8 8. 1	0. 8 0. 0 0. 0						24 25 26 27	0.45.01.10.120.00.00.00.00.55.	0. 0 0. † 0. 0				
0226 ID	B C E	0. 8 8. 1	0. 0 0. 0 0. 0							0. 0 5. 6 5. 6	0. 0 5. 6 5. 6				
0227 IB	B C E	0. 8 0. 1	0. 0 0. 0 0. 0					CN5	234	0. 0 0. 0 0. 0	0. 1 0. 0 0. 0				
0228 ID	B C E	0. 8 8: 1	0.4						5678	0. 0 0. 0 0. 1 10. 2	0. 0 0. 0 10. 1				
0229 20	B C E	12.8	12. 0 0. 5 12. 0						10 10 12	10. 1 10. 2 4. 8 5. 1	10. 1 10. 0 0. 0 0. 0				
0230 2C	B C E	12.8	12. 0 0. 5 12. 0						13 15 16	0.0 1.8 0.0	0. 0 1. 8 0. 0				
0231 2B	B C E	5. 1 8. 8	12. 0 0. 0						17 18 19 20	1. 0 2. 2 0. 0 0. 0	1. 0 2. 2 0. 0 0. 0				
0232 IC	B C E	5. 1 8. 8	12. 0 0. 0						21 22 23 24	0.0	0.0				
0302 I5B	B C E	10. 1 10. 3	10. 1 10. 2						1-23741567-8090-22741567-8090-227222222222222222222222222222222222	0000012128-08000200000000000000000000000	100001+1+100008000020001-10000660000 10000-1-10-200000000000000000000000				

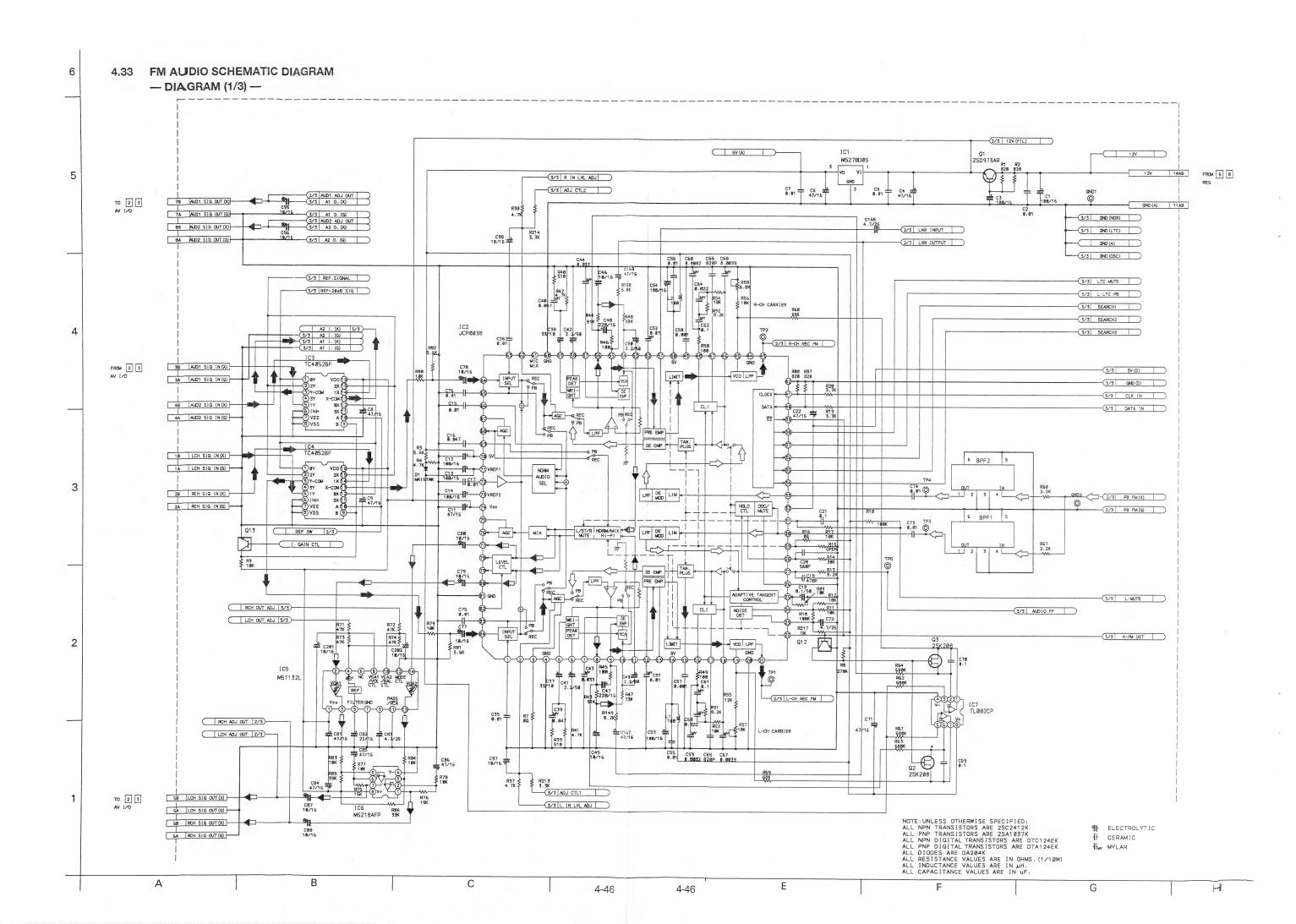


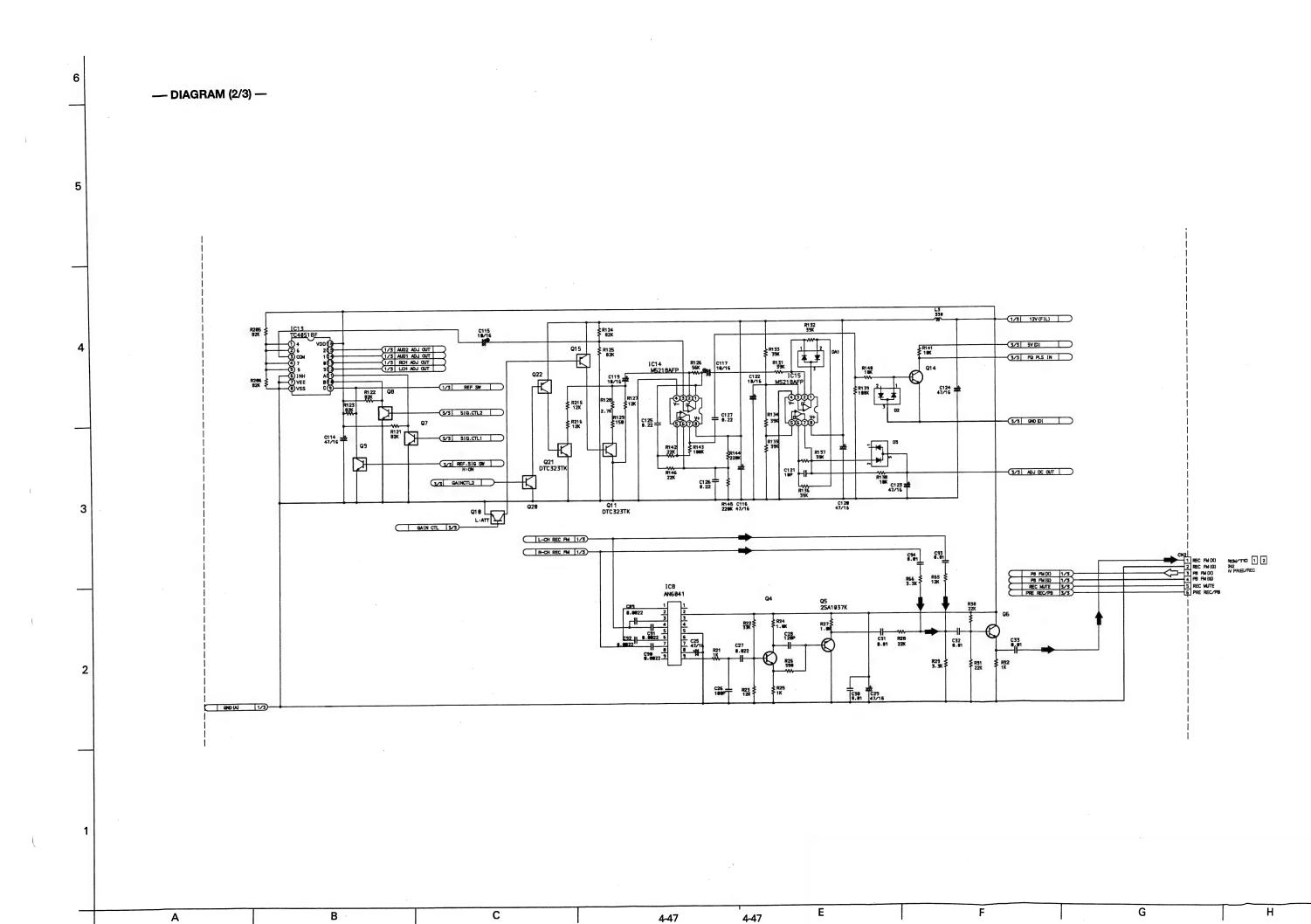


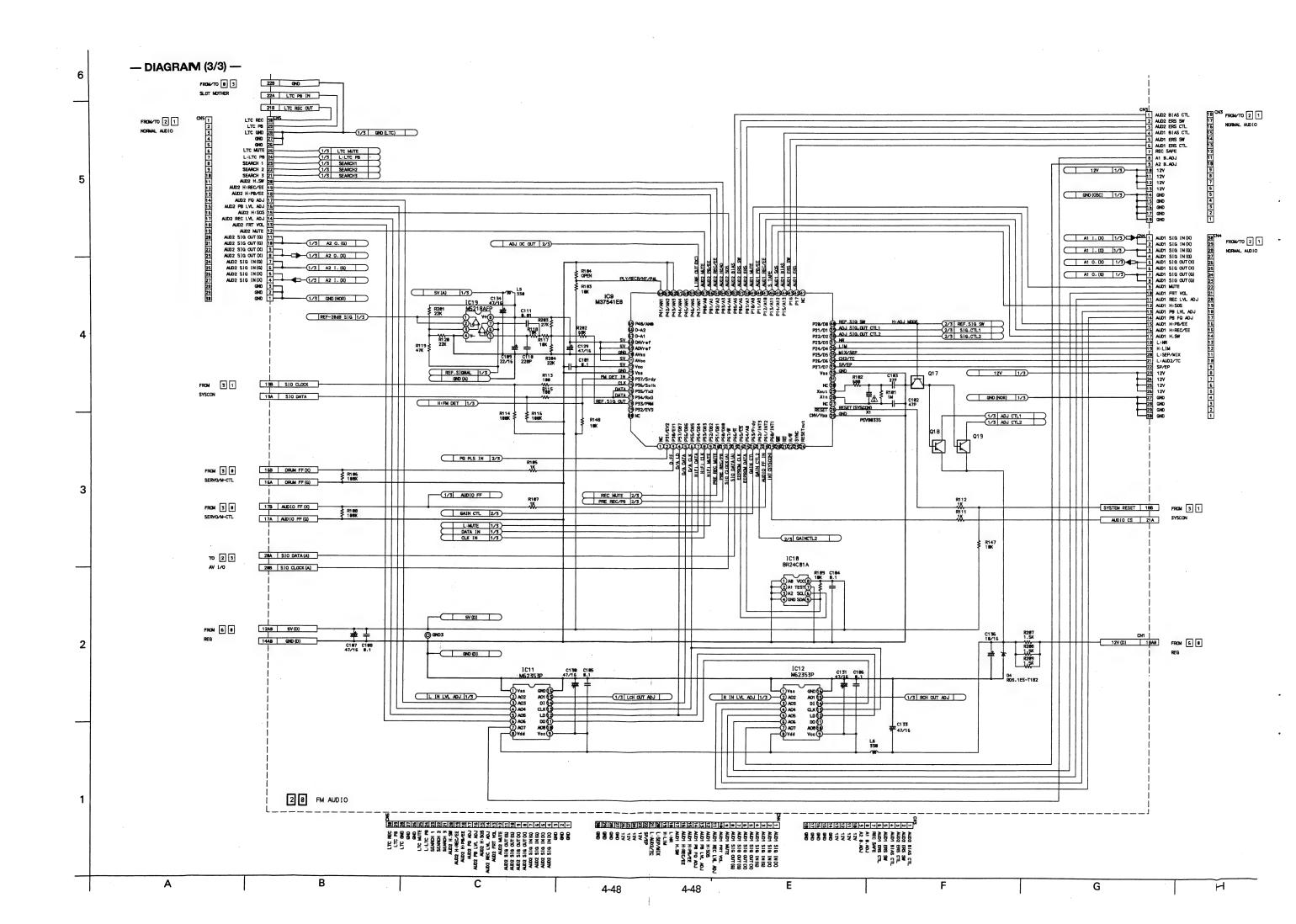
(PRK10140-01-06)

Designation of the last	DC	Volt	age	_
	\sim	4015	$\omega \omega \omega$	

SYMBOL No.	PB	SYMBOL No	o. PB	SYMBOL	No.	PB	SYMBOL 1	No.	PB	SYMBOL	No.	REC	SYMBOL	No.	PB	SYMBOL	No.	PB
I IC1 1 9C 2 3	5.55 5.50		1 0.0 2 0.0 3 4.3 4.8	IC5 2D	11 12 13 14 15 16	6. 0 11. 3 5. 8 0. 8	IC303 13C	123456	0. 1 0. 0 0. 4	012 4D 0301 12B	B C E	12. 0 12. 1 11. 4 11. 9 12. 1 11. 3	CN4	123456	0. 0 0. 0 0. 0 0. 0 12. 1	CN5	123456	0. 0 0. 0 0. 0 0. 0
4 56 7 8	0. 0 5. 4 5. 4 10. 9	IC4 5F	1 10. 98 4.355 4 5.88 10. 00 0.00	IC301 14C	1 2 3	5. 55555	TRAN	8 S I		0302 14A	BCE	11. 3 5. 4 11. 3 4. 8		8 9 10	12. 1 12. 1 12. 1 0. 0 0. 0 0. 0		8 9 10 11	0. 0 10. 8 0. 0 10. 8 0. 0
IC2 1 11F 23 45 67 8	56504449		35.58 0 0 2 2 0 8 0 0 3 0 0 3 0 0 0 3 8 0 0 2 0 8 0 0 3 8 0 0 4 4 0 0 0 3 0 0 0 0 3 0 0 0 0 0 0 0		456789011234	0.0045555000	02 9E 04 12E	BCE BCE	0. 0 0. 9 0. 0 0. 0 0. 0	CN1	1 2 3	0. 0 0. 0 0. 0 0. 0		1234567890	5. 1 0. 0 0. 0 5. 1 0. 0 5. 0 0. 0		1234567890 14567890	10. 8 0. 0 10. 8 0. 0 5. 1 0. 0 5. 1 1. 3 0. 0
IC3 1 2 3 4 5 6 7 8 9 10	10. 9 4. 3.67 10. 0 3. 0 3. 0 3. 2	IC5 2D	5.4 5.1 5.2 5.2 5.3 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	IC302 14F	13 12 33 45 67 8	10. 555505555 10.	010 8B 0111 6B	BCE BCE	0. 0 0. 0 0. 0 0. 0 11. 6 12. 1 10. 9		23	8. 8		18 19 22 22 23 24 55 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0		123456789012222222223	0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0



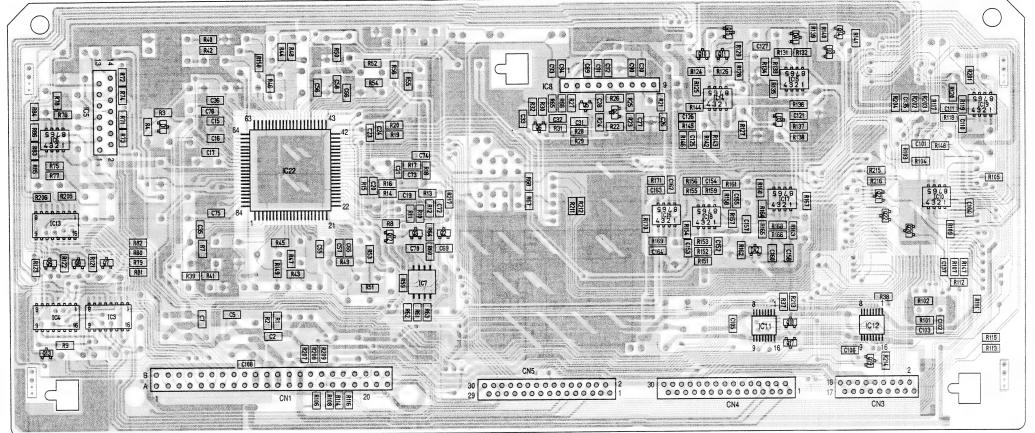




- DC Volt	age (1/2	2) —												
SYMBOL No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL N	0.	REC	PB	SYMBOL	-	REC	PB
INTEGRAT		RCUIT 11.0	IC3	1 2 3	2. 4 1. 9 5. 6	2. 4 1. 9 5. 6		14 15 16	5555533	5. 1 5. 0	IC11 40	14 15 16	0. 2 1. 2 0. 0	0. 2 0. 0
1C1 123 1C2 9B 234 567 89 130	10i5 1000064156151515150	105. 25000545555		-N-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	50.000 00.000 25.5.1.00	5.000 0.00 0.00 25.5.1.0		11111112000012332503333333333333333333344444444444444			IC12 20	12034007-800-203400	0000000400-1	0002009480-1-0200521-0
1234 156	2225. 0.0	12121215212	IC4 120	_	2. 4 1. 9 5. 3	2. 4 1. 9 5. 3		30 20 20 20 20 20 20 20 20 20 20 20 20 20	0.50000	\$0.55050000 \$0.5505050000000000000000000	IC13		8-020 9-120 10-0	4. 5 6. 0
1-2193415667-8090-1-219341567-8090-1-219581807-1-219581807-1-219581807-1-21900-1-21900-1-21	20016500 2003320	いつつついていいいいいいいいいいいいいいいいくつくついろう	LOS	12345678990-23456	5.0000 0.000 2.55.1.00	500000 00000 2555-11.00		3578901123445676		49217-3001-051501000001-000000000000000000000	120	-2004567-800-21-21-21-21	5.33 0.00 0.00 10.00 10.00 10.00	55000 0001 1001 1001
2001-250-45007-800-0 2000-0-25	000++02++01++10004430000666555555555555555555555555555	0.5xio.5xio.0.0000000000000000000000000000000000	IC5 11B	123345567899012334	11. 0 4. 46 10. 6 0. 0 3. 3 0. 0 0. 0 0. 0 4. 7	11. 0 4.566 10. 6 0.340300044.6		44555555555555555555555555555555555555	000000-0000000000000000000000000000000	100000001000 1000000001000100001000010	IC14 4B	100045678	11.0 5.4 5.4 5.0 2.0 3.5 11.0	11. 0 5.44530 2.5530 2.5530 11. 0
41545445678896	0.000430000	9. 9 2. 4	IC6 12B	134 12345678	4. 47 555055577 11. 0	044. 555505551.		666666666666666666666666666666666666666	0.000		IC15 3A	12345678	7.93 7.00 9.66 3.7 11.0	9の1-056000 7.7.7.0.355.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
7-12:04:0:67-8890-12:04:0:67-8900-2:034 5-10:50:50:50:50:66666666666666667777777777	00000000000000000000000000000000000000	いっちのこういっちょうしょうとうないからいっちょういっというというというというというというというというというというというというというと	IC7 7D	8 12334567-8	11. 0 2.2.2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	11.0 2.6 2.6 0.0 2.5 5.0		70 71 72 73 74 77 77 77 77 77 77	500000-0-0-1-00000000000000000000000000	121200001000000000000000000000000000000	IC19	123345678 A N	22 22 5. 5.	2;44 2;44 0;099990 1;50 0 R
61 62 63 64	\$2255 \$2255	22.8 22.8	IC8 5A				IC10 2C	-			01 9D	B C E	11.1	11: 7 11: 0
65 66 67 68	25150021	255882		100041007-000	8.1217072178.	8. 0.0644056650 127.07.27.8.		12345678	00001202	00000	92 70	B C E	2. 3. 2.	2. 6 3. 1 2. 6
$\begin{bmatrix} 69 \\ 70 \\ 71 \\ 72 \end{bmatrix}$	25252	215252	IC9	-	8:8		IC11	-			93 80	B C E	2. § 3. §	2. 6 3. 1 2. 6
73 74 75 76	11. 0 0. 0 5. 8			1234567-890-123	8. <u>9</u>	5. 1 0. 1 9. 2	40	1254567800-25	00800000000000	000000000000000000000000000000000000000	04 5B	BCE	2. § 8. § 2. §	2. 9 8. 8 2. 2
778 78 79 80	2555	5555560		789	0.250	0.12500		789	3555	435.56 435.56	05 6B;Q4, Q6	BCE	2. 2 2. 1 2. 1	2. 2 0. 0 2. 9
82 83 84	8. 5 2. 5 2. 5	2. 5 2. 5		†¥ 12 13	5. 8 0. 0 0. 0	8: b 8: 8		1 12 13	4: ½ 0: 0 4: 5	4. 5	96 6B	B C E	1 ₄ . 8	11. 0 14. 6

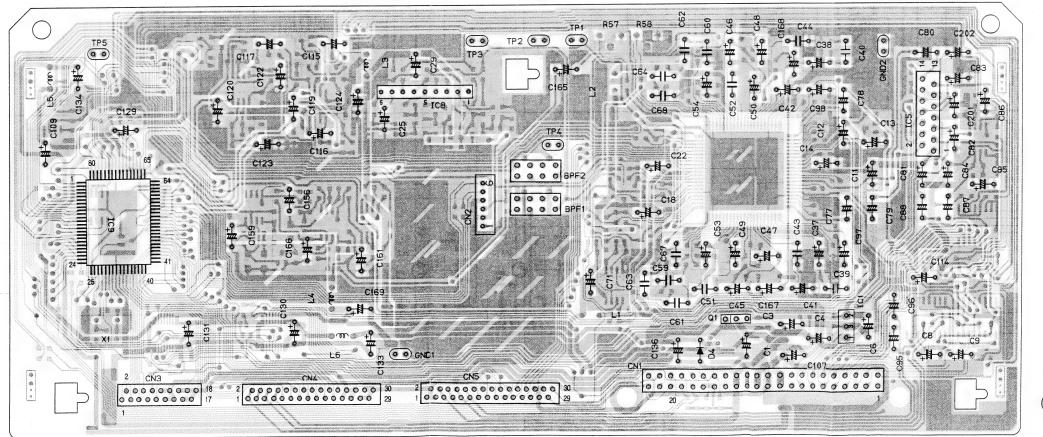
- DC Voltage (2/2) -

	Oita	ge (2/2)	, —								
SYMBOL	No.	REC	PB	SYMBOI		REC	PB	SYMBOL	No.	REC	PB
07 IID	BCE	0. 0 10. 5 0. 0	10. 0 10. 6 0. 0		15A 15B 16A 16B	0. 0 4. 6 0. 0	0. 0 8. 8		17 18 20	1. 8 0. 0 5. 1 4. 8	1.8 5.0 0.0
08 11D	B C E	10. 6 0. 0	0. 0 10. 6 0. 0		17A 17B 18A	0.0	<u>0.0</u> <u>0.0</u>		21 22 23	10.2 10.2 10.2 10.2 0.0 0.0 0.0 0.0	10. 1 10. 2
09 12D	B C E	10. 9 10. 9 0. 0	10. 0 10. 9 0. 0		15A 15B 16A 16BA 17BA 19BA 19BA 19BA 22B 22B 22B	0.0 5.4.9 0.0 3.4	0.54.5000 3.4		7-890-129245-67-890		1.8 0.0 10.1 10.2 10.2 0.0 0.0 0.0
910 4A	E	5. 0 0. 0 0. 0	5. 6 0. 0 0. 0		21A 21B 22A 22B	-3. 4 0. 8	-3. 4 0. 0 0. 0		30		
911 4A	B C E	10. 8 0. 0 0. 0	10. 8 0. 0 0. 0	CN2							
912 80	B C E	0. 1 3. 0	0. 2 3. 1 0. 0		123456	2. 8 0. 0 0. 0 0. 0 4. 9	2.90 0.00 0.50 0.10				
013 12E	B C E	5. 0 0. 0 0. 0	5. 1 0. 0 0. 0	CN3	1 2 3 4	5.5555.	0. 0 0. 0 0. 0 0. 0				
014 3A	B C E	B 0. 0 5. 1 E 0. 0	0. 0 5. 1 0. 0	55.00						<u> </u>	
915 4A	BCE	10. 8 10. 9	10. 8 10. 8		120040067000011111100700	52 12 12 12 12 12 12 12 12 12 12 12 12 12	32222200000 1222200000				
017 3D	BCE	0. 0 5. 1 0. 0	0. 0 5. 1 0. 0				12. ŏ 0. 0 0. 0 0. 0				
018 30	BCE	5. 1 5. 1	5. 1 3. 0 5. 1	CN4							
019 2E	BCE	5. <u>1</u> 5. <u>1</u>	5. 1 2. 7 5. 1	0144	123452678990123	55000000004900	555000000049900				
020 20	B C E	10. 8 10. 8 0. 0	10. 0 10. 8 0. 0		6 7 89	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0				
Q21	BCE	0. 0 8. 8	0. 0 8. 8		10-10:34:5:67-6	2. 4 0. 9 0. 0 1. 0					
Q22 C	B C E O N N	10. 7 0. 0 10. 9	10. 7 0. 0 10. 9			1. 2 0. 1 5. 8					
CN1					19 20	5. Y 0. Q	5. Y 0. Q				
	18ABABABABABABABA	به میں	501001001501501		45.67.89.01.25.45.67.89.0	6600000004900000-800-000000000000000000000	51500000000490001-0801-00000000000000000000000000000				
	7A 7B 8A	5050 5060 5060 5060 5060		CN5	123	0. 0 0. 0 0. 0					
	4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B4B				1-20045007-8000-1-2004500						



(PRK10171)





(PRK10171)

Α

В

С

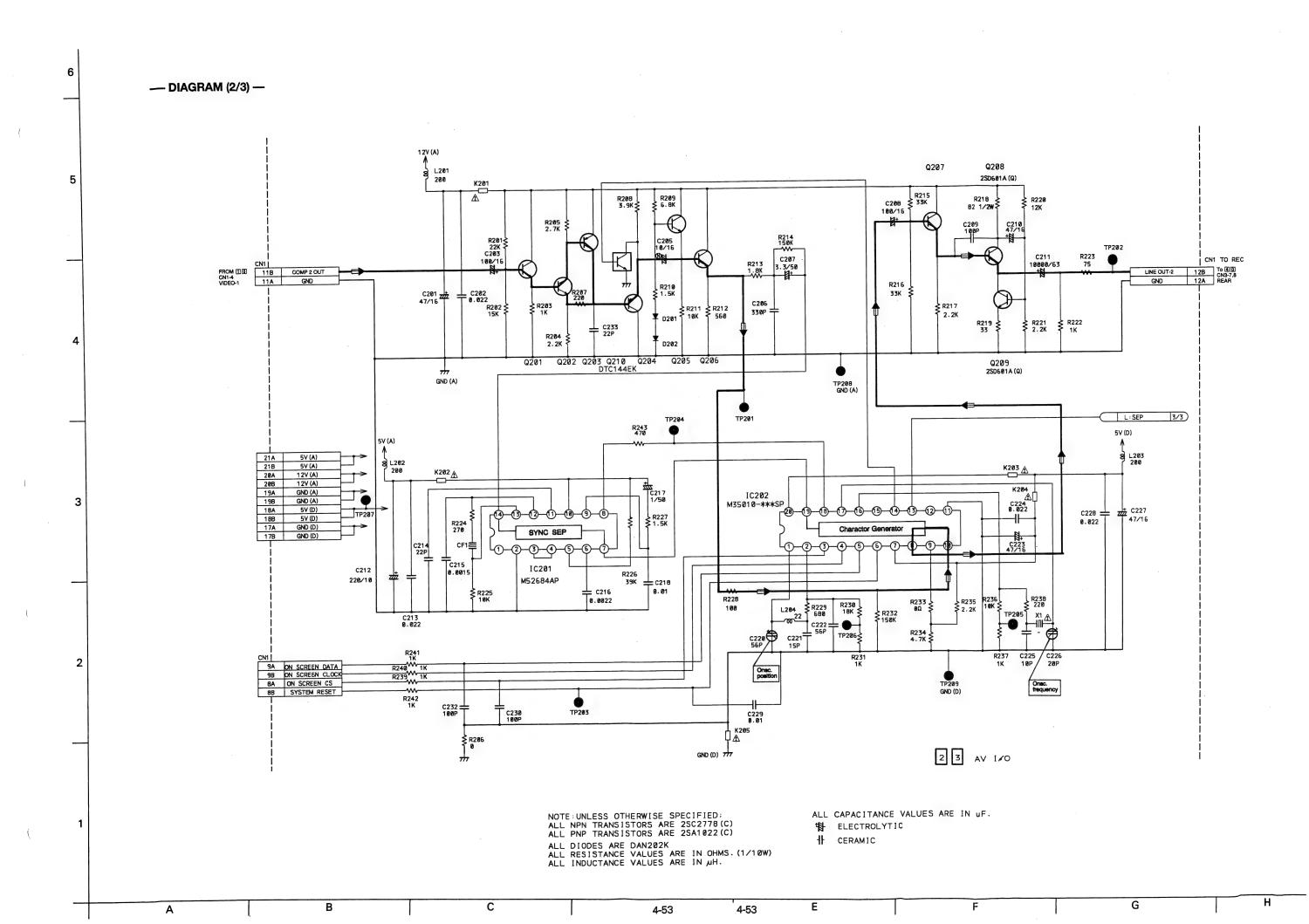
4-51

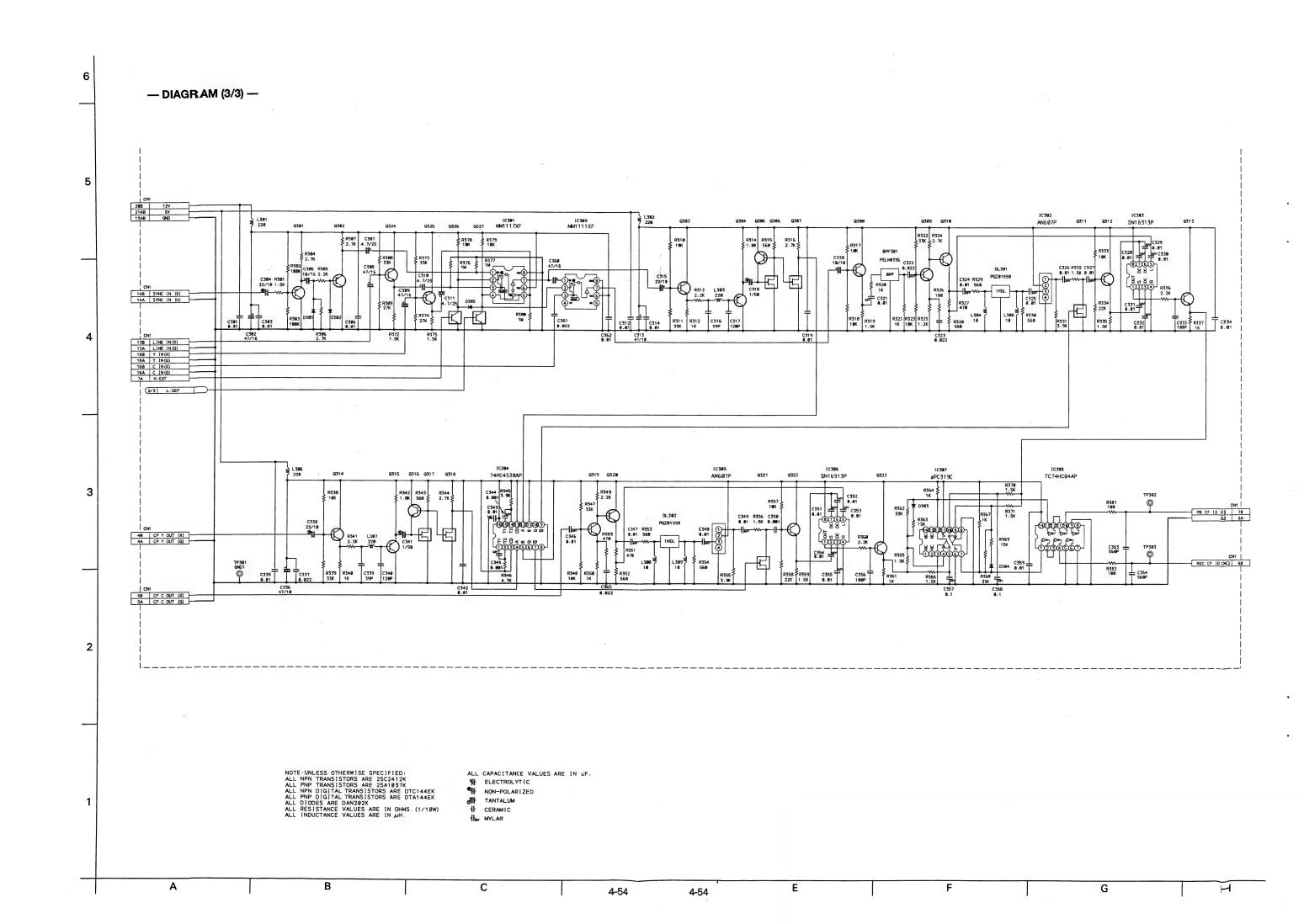
E

4-51

F

G





— DC Voltage (1/2) —

SYMBOL	No.	REC	PB	SYMBOL 1	No.	REC	PB	SYMBOL	No.	REC	PB	SYMBOL	No.	REC	PB	
INTEG IC1 5E			550 0.0	IC8 4F	12345678	5. 6 5. 6 0. 0 5. 6	00000000000000000000000000000000000000	IC202 10E	14 156 17 189 20	0.0333240	000000440	IC309 I2C	12345670	6. 6 6. 7 0. 0 11. 9 6. 0 0. 0	6. 7 5. 6 0. 0 11. 9 15. 0	
	12034567-8001	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 11. 0	IC9 12E		5. 6 11. 2 5. 6 5. 6		IC301					RAN	SIST	O R	
	10 1234 156	55000000000000055555	10000000000000000000000000000000000000	120	12004567-00	555505551:	555505555 11:		12034567-8	34.30.300 1.30.30.31.30.30.31.30.30.31.30.30.30.30.30.30.30.30.30.30.30.30.30.	31-30-31-30 1-30-31-30-	01 5D 02 5C	B C E B	11. 9 12. 0 11. 2	11. 9 11. 2 12. 0	
IC2 4F	-			IC51 2D				IC302 13E	1 2 3 4	3.328 5.00	3. 22 5. 28 0. 0	93 5B	BC E	12. 0 11. 9 12. 8 13. 0	12. 0 12. 0 13. 0 0. 0 13. 0	
41	12345678	555505555 11:	5555055551		1234567-8	15606655 0550555 1	0.5.5.6006652 1.5.6006652	IC303	123345678	3.69096662 4.21-0-2:2:5:	369009662 421-0-225	04 5F	BCE	0. 0 0. 0 0. 0	0. 0 8. 8	
IÇ3 6F				IC52 3D	12345678	0.0000000000 0.00000000000000000000000	0. 1 5. 6 0. 6 5. 6 5. 5 11. 2	10204				05 70	B C E	0. 0 0. 0 0. 0	0. 0 8. 8	
	10045678	11.5.5.5.5.5.5.5.1.1.1.1.1.1.1.1.1.1.1.	11. 1666066662 11. 155505555555555555555555555555555555		-			IC304 15C	2345	5.17 5.17 5.14	45.47 5.45.4	96 70 97 70	BCE	0. 0 0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	
IC4 7F	1234	11. 2 11. 2 1 11. 0 11. 0 2 3 5. 7 5 5. 7 5. 7 5 5. 7 5. 6 5 5. 7 5. 6 7 5. 6 5. 6 8 11. 2 11. 2 1 0. 0 0. 0 2B 10. 0 1 1. 2 10. 0 <t< td=""><td>11. 0 5. 0 5. 7 0. 0</td><td>2B</td><td>233450</td><td>0.000000000000000000000000000000000000</td><td>0.55.0.5.5.5.1.1.0.5.5.0.5.5.5.1.1.1.1.1</td><td></td><td>1234556788901239456</td><td>0.8-1-1-48083-1-801</td><td>07171480101505050505</td><td>98</td><td>E BCE</td><td>0. 0 0. 3 0. 0</td><td>8. 8 0. 8 0. 8 0. 0</td></t<>	11. 0 5. 0 5. 7 0. 0	2B	233450	0.000000000000000000000000000000000000	0.55.0.5.5.5.1.1.0.5.5.0.5.5.5.1.1.1.1.1		1234556788901239456	0.8-1-1-48083-1-801	07171480101505050505	98	E BCE	0. 0 0. 3 0. 0	8. 8 0. 8 0. 8 0. 0	
					2345	4.7 5.4 0.0 5.0	0. I 5. I 0. 0	09 3E	BCE	0. 0 0. 5 0. 0	0. 0 0. 5 0. 0					
IC5 4E	1234567890	0.000000	0.55555	28	12345678	0:5:60060552 11:5:6006052	0.5.506652 0.5.505555 1.	IC305 14D	1 2 3 4	3. 3 5. 1 1. 8 0. 0	3. 3 5. 1 1. 8 0. 0	010 2E	B C E	0. 0 0. 5 0. 0	0. 0 0. 5 0. 0	
	67 89 10	$ \begin{array}{c cccc} 6 & 0.0 \\ 7 & 0.0 \\ 8 & 0.0 \\ 9 & 0.0 \\ 10 & 10.3 \\ \end{array} $	0666660000046006601 05555500000555551 15055550000555551 066666000000560606060	IC55 3C	-	1 11. 1666 5.660 5.66 5.66		IC306 I5E	1 2 3 4	-		011 012 3F	BCE	12. 0 0. 0 0. 5 12. 0 0. 0	12. 0 0. 0 12. 0 12. 0 12. 0 0. 0	
	11 12 13 14 15 16	50555			54567		11. 2 5. 66 0. 66 5. 6 11. 2		567 8	4210-1225.	42101225.	013 5E	BCE	11. 1 0. 0 11. 2	11. 1 11. 2	
IC6 7E	-				+-	11. 2 0. 9 0. 0 1. 0		IC307 15F	1 2 3 4	0. 0 0. 0 0. 0 3. 6	0. 0 0. 0 0. 0 3. 6	014 5F	BCCE	0. 8 0. 0	8. 8 6. 8	
	12345678	5556655551	555505555555555555555555555555555555555		45678	9:00015214200002021-7 0:01-1:004142102020000	1.05244.2		56789	1 23 4 5 6 7 8 9 1 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	0.0067033057	015 5F	B C E	0. 0 8. 8	0. 0 0. 0 0. 0	
IC7 6B			0. 0 0. 0 0. 0		1234567-890-1234	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00-1-004426000000000000000000000000000000000		12 13 14	5.7	8:8	9201 9C 9202 8C	B C E	14. 6 14. 8	14.6 11.8 14.1 13.5	
	#556F-86	10.5 10.5 11.1	0. 0 0.	0. 1 10. 3 1. 0	IC202	++	2.3	2: 3	IC308 I4F	1 23 4			9203 8C	BCE BCE	11. 1 13. 5 11. 1 11. 8	11. 1 11. 8 11. 8
	12345367889012334536	10.8 0.0 0.0 0.0			12074567-8001-207	4.05.52.05.00 4.05.52.05.00 5.00 4.05.52.05.00 5.00 6.00 6.00 6.00 6.00 6.00 6.0	4055232005		123456789901234	8. 0	ğ. þ	0204 8C	BCE	3. 7 2. 8	3. 8 0. 0 4. 0	
	15	0. 0 5. 1	9. 0 5. 1		10 12 13	3. 4 20.0 0.0 5. 0	3. 4 6.0 0.0 5.0		12 13 14	0005561	00000000000000000000000000000000000000	0205 8D	BCE	13. }	1 ^{3.} 1 3. 1	

— DC Voltage (2/2) —

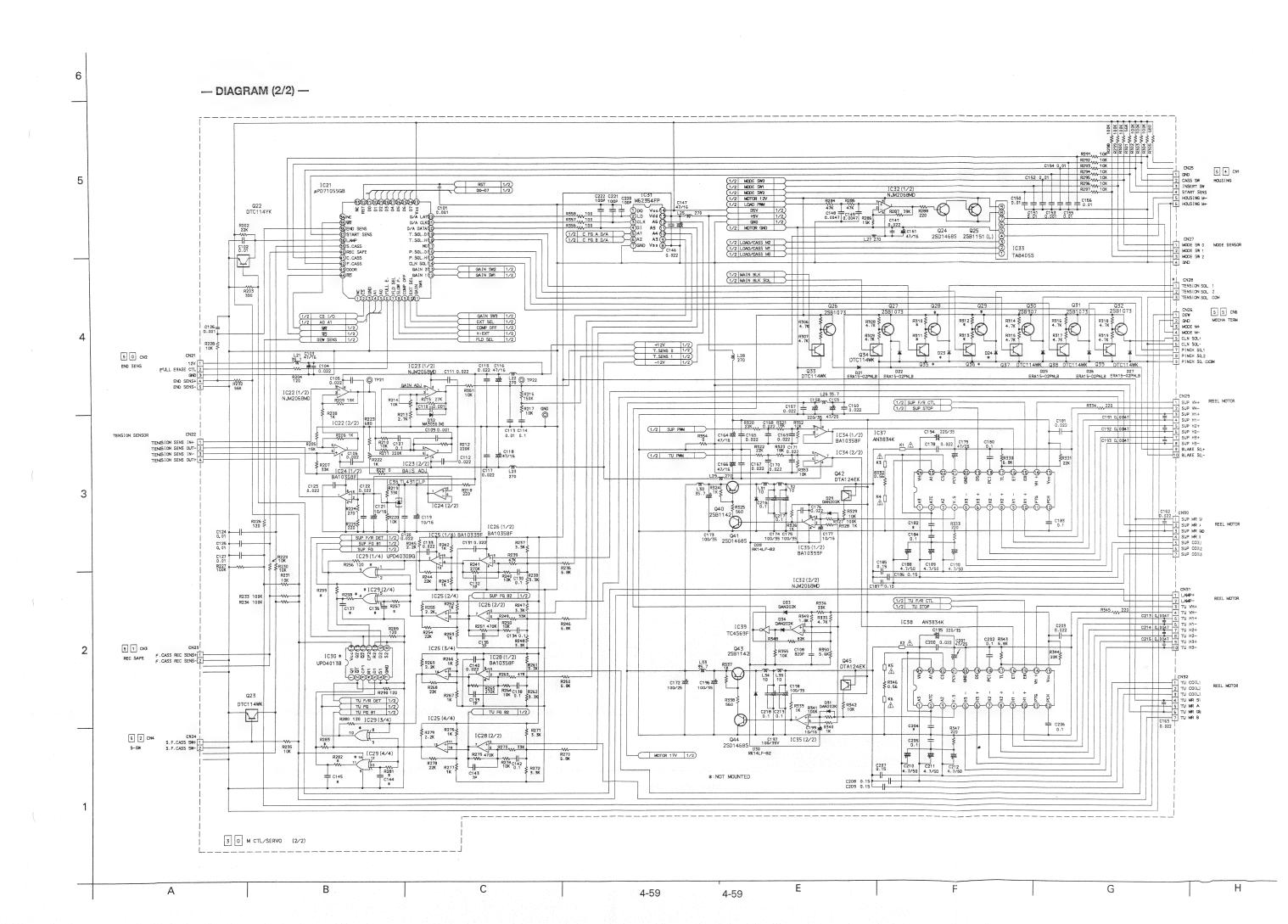
SYMBOL	No.	REC	PB	SYMBOL	1	REC	PB	SYMBOL		REC	PB
0206 8D	BCE	11. 8 2. 7	1 <u>1</u> .8 2.8	0319 14C	B C E	1. 8 2. 6 1. 1	1. 8 2. 6 1. 1	CN2	1A 2A 2R	8.8 11. 1	0. 0 0. 0 11. 2
0207 8E	BCE	1 <u>1</u> . 8 5. 2	1 <u>1</u> . 8 5. 2	0320 14D	BCE	2: 6 5: 3	2.6 5.3 2.3		3A 3B 4A	10. 0 0. 0 1. 8 0. 0	0. 0 0. 0 1. 8 0. 0
0 208 9F	B C E	5. 2 9. 4 4. 3	5. 2 9. 4 4. 3	0321 14E	BCE	4. 8 0. 0 0. 0	4. 8 0. 0 0. 0		5A 5B 6A	0. 0 0. 0 13. 0	0. 0 0. 0 13. 0
0209 8F	B C E	1. 7 4. 3 1. 0	1. 7 1. 8	0322 14E	B C E	3. 5 5. 9	3. 5 5. 9		7A 7B 8A	8:8 8:8 8:8	8: 8 8: 8
0210 8C	BCE	0. 0 4. 0 0. 0	0. 0 4. 0 0. 0	0323 150	B C E	4. 3 5. 6 3. 6	4. 3 5. 1 3. 6		9A 9B 10A	8: 8 8: 8 8: 8	8: 8 9: 8
0301 12B	BCE	6. 4 0. 0 7. 0	6. 4 0. 0 7. 0	0324 14B	B C E	5. 3 11. 9 4. 7	11.9 4.7		118 12A	8. 8 0. 0 0. 0	0. 0 0. 0 0. 0
0302 12C	BCE	0. 1 0. 0 0. 8	0. 1 0. 0 0. 8	0325 Í3C	B C E	1 <u>1</u> . <u>9</u>	11.9 14.7		4BABABABABABABABABABABABABABABABABABABA	+0000000000000000000000000000000000000	00200800000000000000000000000000000000
0303 Í3D	BCE	3.53	3. 9 5. 3	0326 120	B C E	0. 0 7. 6 0. 0	0. 0 7. 6 0. 0		15A 15B 16A	0. 0 5. 5 0. 0	0. 0 5. 5 0. 0
0304 I2D	BCE	3. 3 0. 0 3. 9	3. 3 0. 0 3. 9	0327 130	BCE	5. 0 0. 0 0. 0	5. 0 0. 0 0. 0		17A 17B 18A	5. 5 5. 5 0. 0	5. 6 5. 6 <u>0</u> . 0
0305 12E	BCE	0. 9 5. 2 3. 4	0. 9 5. 2 3. 4	CN1			O R		188 198 20A	5. 5 5. 6 5. 0	5. 6 5. 6 0. 0
0306 I3D	BCE	3. 4 0. 9 0. 0	3. 4 0. 9 0. 0		2A 2B 3A	0. 0 0. 0 0. 0	0. 0 0. 0		21A 21B 22A	5. 6 5. 2 0. 0	5. 6 5. 0 2. 0
0307 I3D	BCE	0. 9 4. 7 0. 0	0. 9 4. 7 0. 0		11223334455566778889BABABABABABABABABABABABABABABABABABA	000000000000000000000000000000000000000	000000000004070		228	5. 3	5. 3
0308 13E	BE	2. 6 5. 2 2. 1	2. 6 5. 2 2. 1		6A 6B 7A	3. 4 0. 0 2. 7 0. 0	3. 4 0. 0 2. 7 0. 0				
0309 IIE	B	1. 2 3. 8 0. 6	1. 2 3. 8 0. 6		78 8A 8B 9A		5. 1 0. 6 4. 7				
0310 IIE	B	3. 8 5. 2 3. 4	3. 8 5. 4		10A 10B 11A	0. 0 0. 0 0. 0	6. 0 0. 0 0. 0				
0311 IIF	B C E	4. 8 0. 0 0. 0	4. 8 0. 0		12A 12B 13A	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0				
0312 IIF	B	3. 5 5. 2 2. 9	3.529		14B 15A	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0				
0313 12F	B C E	4. 3 5. 2 3. 7	4. 3 5. 2 3. 7		16A 16B 17A	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0				
0314 I5B	B C E	3. 9 5. 1 3. 2	3. 9 5. 2 3. 2		8A 18B 10A	555 Q	55 Q				
0315 14B	B C E	3. 2 0. 0 3. 9	3. 2 0. 0 3. 9		0ABABABABABABABABABABABABABABABABABABAB	16000000000000000000000000000000000000	167000000000000000000000000000000000000				
0316 15 B	BCE	0. 8 5. 1 3. 4	0. 8 5. 1 3. 4		22A 22B	8. 8 0. 0	8. 8 8. 8				
0317 I6B	BCE	3. 4 0. 8 0. 0	3. 4 0. 8 0. 0								
0318 16B	BCE	9. 8 4. 7 6. 0	0. 8 4. 7 6. 6								

(PRK20267-01-01)

- MAIN WAVEFORMS OF AV I/O CIRCUIT -

TP1, TP2	TP3, TP4	TP5		TP201		TP:	202	TP204	TP302	TP303	
\mathcal{M}	\mathbb{N}		\bigcirc	<u></u>							
[PB] 1.1 Vp-p – MBAFE-2 –	[PB] 0.8 Vp-p – MBAE –	[PB] 1.1 Vp-p – MBAFE-2 –	[PB] 0.8 Vp-p – MBAE –	[REC] 2.0 Vp-p – H-rate –	[REC] 2.0 Vp-p – V-rate –	[REC] 1.0 Vp-p – H-rate –	[REC] 1.0 Vp-p – V-rate –	[REC] 4.4 V/15.625 kHz – S-VHS –	[PB] 5.1 Vp-p/7.8 kHz – MHVE-2H –	[REC] 4.8 Vp-p/7.8 kHz – S-VHS –	

A B C 4-57 4-57 E F G H



5

INTEGRATED CIRCUIT

SYMBOL No. REC

14 13 12 11 10 9 8 6 5 4 3 2 1
R340 R341
E
C

IC5 IC7

(PRK10135-01-01)

.

Α

В

C

4-60

.

4-60

H

G

- DC Voltage (2/4) -

SYMBOL	No.	REC	PB	SYMBO	L No.	REC	PB	SYMBO	No.	REC	PB	SYMBO	L No.	REC	PB
	901234	2.2.2.4.4.5.1	2: 6 0: 1 2: 6 0: 0 0: 0 5: 1		24567 22567 2250 2300			IC16	122345507	0:0	0. 0 	IC21	24 25 26 27 28 29 29	0.1	
IC8	12345678	2220000000	9660066661 2222022225						-2474567-866-2474567-8690	000	0.0000000000000000000000000000000000000		245078990-233456678890-244444		0.000000000000000000000000000000000000
IC9	12345678	566046-+- 0010100101015	566004611 2012102105		40 42 43 45 45			IC17				IC22			
IC10	-20045067-8	+-	+1 5555055550 56 21212101550		47 48 49 51 52 53				1253456786901125456	0.0000000000000000000000000000000000000	0:31-2:51-4:04:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:	1032	123341567-8	3443300 12444 12.7	3.62 4.22 -12.22 4.0 -12.7
IC11	0F8 1233456F8	مامات المامات	مامات المامات		5556789 556666			IC18				IC23	1234567-8	033330037 200320037 120030	2.0 0.3 0.3 -12.2 2.0 0.3 12.7
IC12		Nickelia diction	25515 25150 25150		023 645 656 667 688			1010	234567		84657645548 1:2:2:2:2:2:2:2:2:2:2:2:2:2:2:2:2:2:2:2	IC24	12034567-8	80000000000000000000000000000000000000	8055005557 522002000000000000000000000000
	-2004567-80	2:5 0:0 1:1 3:1 19:0	2: 5 0: 0 1: 1 3: 1 19: 0		70 71 72 73 74				10 12 13	0. 0 0. 1 0. 1	2.54 1.8 0.7 0.0 2.3	IC25	l		
IC13	120040007-000-2004	4.00.000000000000000000000000000000000	4.0.05000000000000000000000000000000000		4567-8990-2394567-8990-2394567-8990-2394567-8990-23945667-2394567-8990-239567-8990-23960-239567-8990-239567-8990-239567-8990-239567-8990-239567-8990-239567-8990-239567-8990-239567-8990-239567-8990-239567-8990-2090-2090-2090-2090-2090-2090-2090				123345678901-23345678901-23245678	000000000000000000000000000000000000000	102532244 102532244 143		1525345567-8050-152534	060741010101010010	
IC14					889 991 993 995			IC21				IC26	12345678	955005550 95100010015	055055550
	367-800 - NO			IC15					X67-8000 1-12100	400000000000000000000000000000000000000		IC28	12345267-8	22202225	22202225
	1-217-417-07-0000-1-217-07-0000-1-217-000-1-217-				12345678	0.00 0.00 0.09 4.00 4.9	0.00 0.00 0.09 4.00 4.9		12004067-800-1204067-800-120	0.0000000000000000000000000000000000000	090151500090000000000000000000000000000	IC31	12345678	0. 0 0. 0 4. 9 0. 0 2. 6 2. 3 0. 0	0. 0 0. 0 4. 0 0. 0 2. 0 0. 0

— DC Voltage (3/4) —

SYMBO	No.	REC	PB	SYMBO	L No.	REC	PB	SYMBO	L No.	REC	PB	SYMBOI	No.	REC	PB
	9 10 12 13 14	いいいいいつの	2;2;2;5;4;		189 20 221 223 24	1. 2 0. 0 0. 0 0. 6 0. 2	1. 2 0. 0 0. 0 0. 6 0. 2	Q30 Q31	BCE BCE	18. 8 18. 9 18. 2 18. 9	18. 8 18. 9 18. 2 18. 9 18. 9	CN4	152534156	5.1 2.0 4.0 4.0 0.0	0. 0 2. 0 4. 9 4. 0
IC32			1	IC39		4. 4 0. 0 -6. 5	5. 4 0. 0	Q32	B C E	18. 9 0. 0 18. 9	18. 9 0. 0 18. 9	CN5			
	12345678	0.003360555 -1223360555 -13.	0.000000000000000000000000000000000000		12345	0. 0 -6. 5 0. 0 12. 4 13. 5	0. 0 -6. 5 0. 0 12. 4 13. 5	Q33	BCE	18. 9 0. 0 0. 0	18. 9 6. 0 0. 0		12034567-800	90555000000000000000000000000000000000	195550000000000000000000000000000000000
	-				RAN			Q34					8 9 10	0.0 1 <u>2</u> .9	12.9 15.2
IC33	123456789	0.000 0.000 0.000 0.000 0.000 13.5	0. 0 0. 0 0. 1 0. 0	Q1	BCE	2. 4 4. 2 1. 8	2. 4 4. 2 1. 8		BCE	18. 8 0. 0	18. 8 0. 0	CN6		13. 5 0. 0 0. 7 3. 9	13. 5 0. 0 0. 0 2. 7 3. 9
	567	0. 0 0. 0 0. 0	0.1	Q2	B C E	4. 2 3. 0 4. 8	4. 2 3. 0 4. 8	Q37	B C E	18. 8 0. 0	18. 8 0. 0	0)/5	12345		
IC34	-			Q 3	B C E	3. 3 4. 9 2. 8	3. 3 4. 9 2. 8	Q38	B C E	4. 9 0. 0 0. 0	4. 9 0. 0 0. 0	CN7	234	2. 4 0. 5 0. 5	0.5 0.5 0.0
	12345678	0.1 0.3 12.32 22.2 0.5 5.	0. 1 0. 1 -12. 32 0. 2 0. 2 5. 0	Q4	B C E		•	Q39	B C E	18. 8 0. 0	18. 8 0. 0		5678	20.00000000000000000000000000000000000	0 2 0 0 4 0
	8			Q 5	B C E			Q40	B C E	18. 8 4. 1 18. 8	18. 8 4. 1 18. 8		10 10	5. Y 0. Q	0 0 2 4
IC35	12345678	37809730 02101205	0.37 21:09 2:09 2:00 5:00	Q6	B C E			Q41	B C E	18. 6 0. 0	18. 6 0. 0		12034567-8000-2034567-8	1	401000000044400NN-0
	5678	9730 205	1. 9 2. 3 5. 0	Q7	B C E	4. 8 0. 0 0. 0	4. 8 0. 0 0. 0	Q42	B	4. 1 1. 3 5. 0	4. 1 1. 3 5. 0	0.01		3. 2 5. 2 4. 1 5. 0	
IC36	1 2 3	2. 5 0. 0 10. 9	2. 5 0. 0 10. 9	Q8	B C E	3. 8 0. 0 2. 2	3. 8 0. 0 2. 0	Q43	B C E	18. 8 5. 6 18. 9	18. 8 5. 6 18. 9	CN21	12345	12. 8 4. 9 0. 0 4. 8 0. 0	12.8 0.00 4.80
IC37	1 2 3	0.1	0.1	Q 9	B C E	19. 1 2. 6	18. 9 2. 2	Q44	B C E	17. 5 0. 0	16. 8 0. 0	CN22	1234	4. 2 2. 5 4. 0 5. 8	21508 4245
	123456789	وماميدين والمرادية	0.0000000000000000000000000000000000000	Q10	B C E	13. 5 2. 0	13. 5 1. 6	Q45	B C E	5. 8 1. 9 5. 0	5. 2 1. 9 5. 0	CN23	1 2	5. 8 0. 0 0. 0	88
	8	2:33	2. 3 2. 3 2. 3	Q11	B	9. 9 8. 6	0.0	(0 R	CN24	•	0.0	88
	12			Q12	Ĕ B		3. 2 0. 0 4. 9	CN1	$\frac{1}{2}$	2. 4 8. 8	2. 4 0. 0 0. 0	CN25	1		
	14 15 16	3. 0 0. 0 0. 1	3. 0 0. 0 0. 1		B C E	4. 9 0. 0 4. 9	4. 9 0. 0 4. 9		56	0. 0 3. 1 0. 0	0. 0 0. 0 0. 0		123456	0. 0 0. 0 0. 0 0. 0	090800
	17	1.5300-1.00061 0.000-1.00061	1.53.00 1.200061 0.00000000000000000000000000000000	Q22	B C E	:	:		8 9	6. d 0. d	0. 0 0. 0	CN26			$\overline{}$
	10-23456789012334			Q23	BCE	0. 0 4. 9 0. 0	0. 0 4. 9 0. 0		11 12 13	0. 0 0. 0 0. 0	8. 8 8. 8 9. 8	0.120	2345	0. 0 0. 2 0. 0	88 =
IC38		4. 1	4.1	Q24	B C E	13. 0 0. 2	13. 0 0. 2		1-20341567-8090-20341567-8	40001040000000000000000000000000000000	400000400000000000000000000000000000000		12334567-80	0.30 0.0029 0.0069 180.0	0 0 18 18 0 0
	3456		1. 8 2. 3 2. 4	Q25	B C E	13. 0 0. 2 13. 5	13. 0 0. 2 13. 5	CN2	18	0.0	2. 6 2. 6 0. 0	CN27	1234	0. 0 0. 0 0. 0 4. 8 0. 0	0.8
	8 9 10	1.25.25.25.25.25.25.25.25.25.25.25.25.25.	1.25.55.55.52.5	Q26	B C E	12. 8 13. 4 13. 5	12. 8 13. 4 13. 5	CN3				CN29			
	12074567-8000-2074567	1.7 5.0 3.9 6.2 1.2	1: 7 5: 0 3: 9 6: 2 1: 2	Q27	B C E	18. 9 12. 9 18. 9	18. 9 12. 6 18. 9		12074567-8	505050500 2021535-1460	202535990		12334567-8	07-00mmmm 0-i00mmmm 0-i00mmmm	30 100 003 233 233 233

4

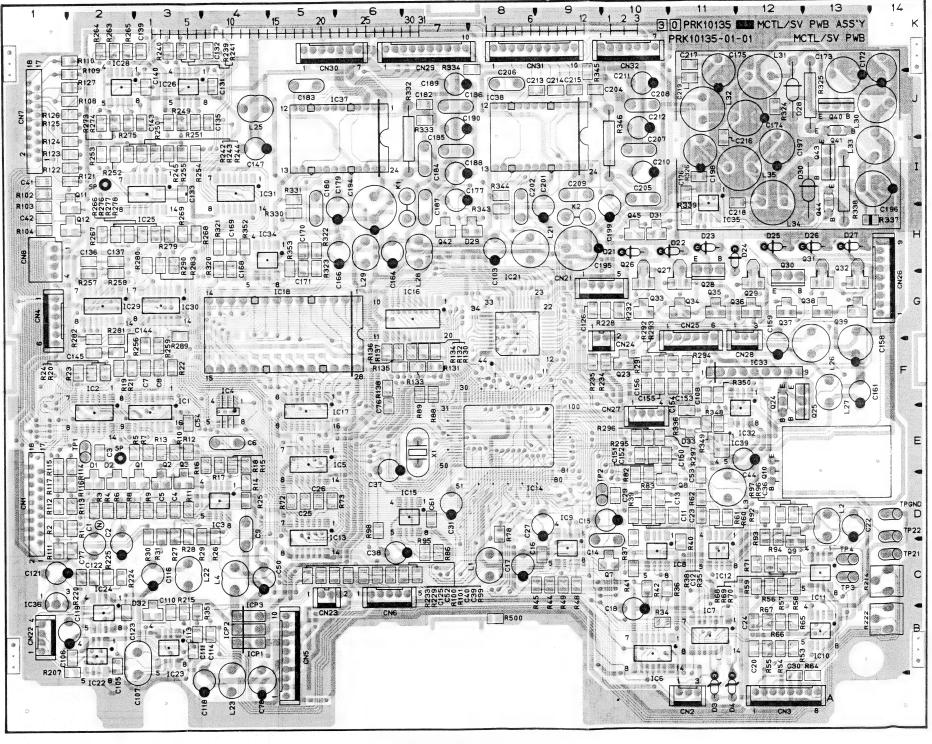
3

SYMB O	LN	REC	PB
	9 10	12. 6 0. 0	12. 6 0. 0
CN3O	1234567	5.0505 2.005	5. 0 2. 0 5. 0 2. 5
CN31	1 23 4 5 6 7 89 10	97070444444 4.33.1.02.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	4.33.1.0.2.2.2.4.4 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
CN32	1234567	5. 0 2. 5 0. 0 2. 5	5.05005

— DC Voltage (4/4) —

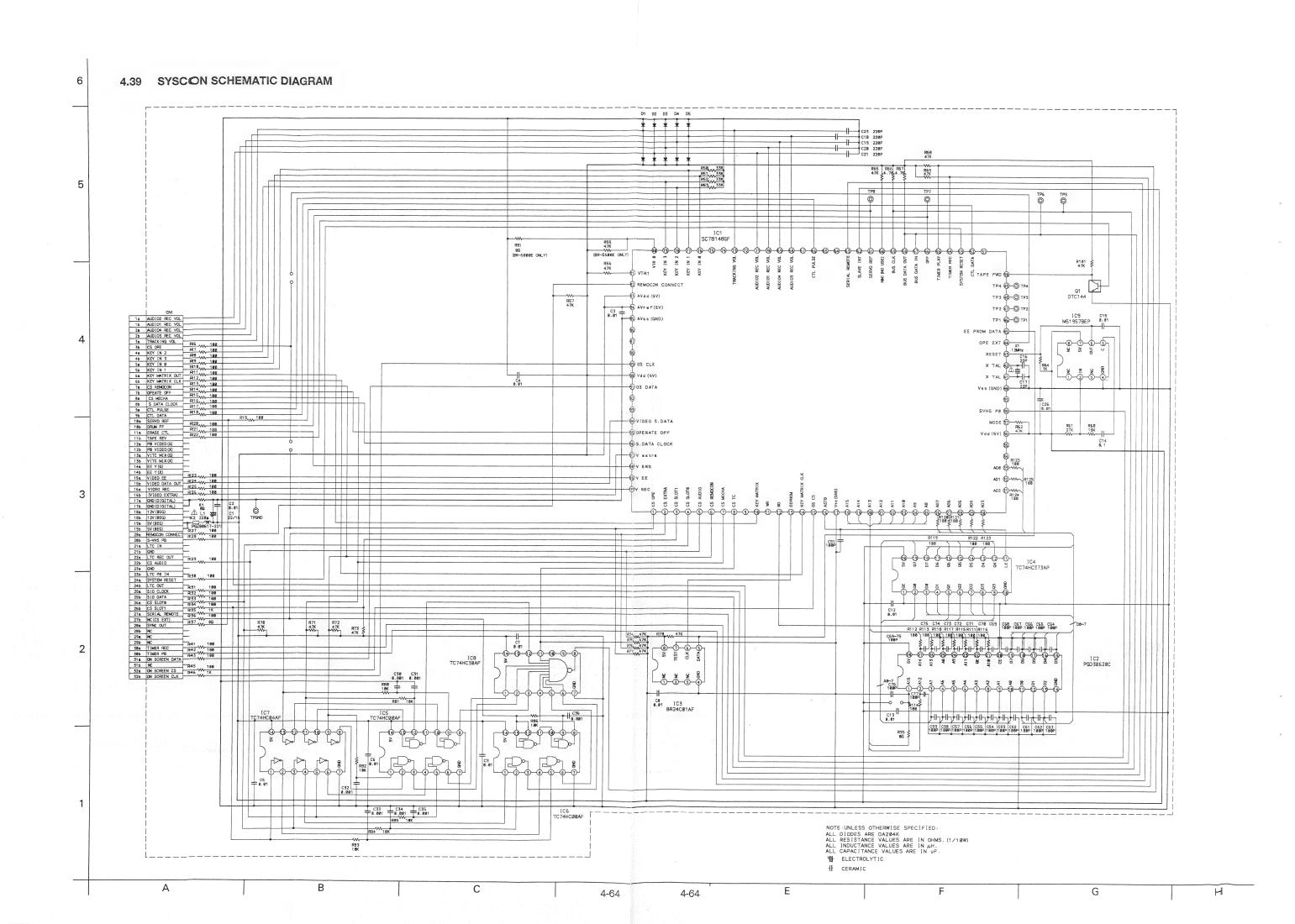
- MAIN WAVEFORMS OF M-CTL/R-SERVO CIRCUIT -

TP1	TP2	TP3 & TP4
4.0 \/-	[PB]	UPPER : TP4
4.9 Vp-p (25 Hz)	2.1 Vp-p	LOWER : TP3
(25112)	(25 HZ)	



(PRK10135-01-01)

A B C 4-63 4-63 E F G H

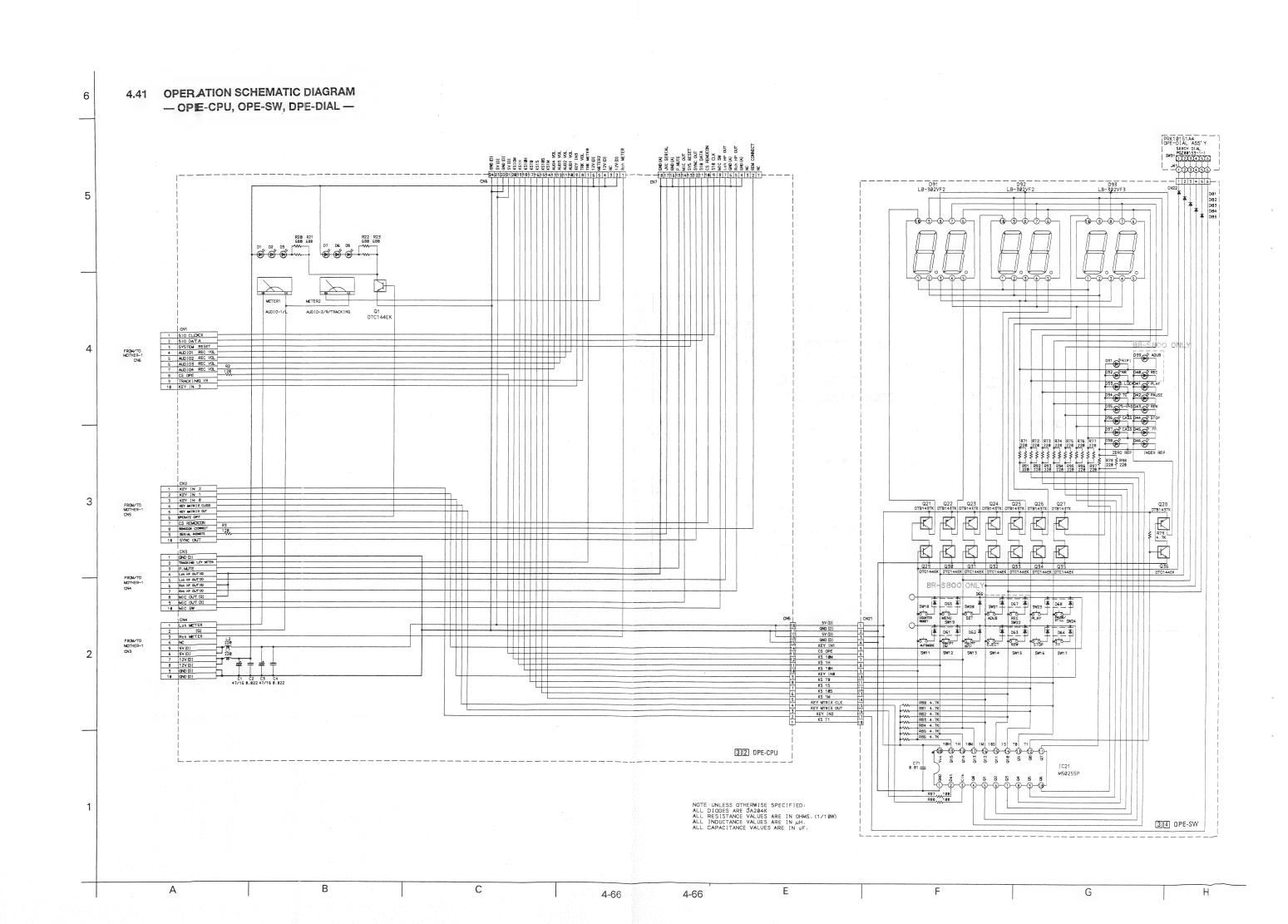


(PRK20214-01-01)

— DC	Volta	age —				-	S 7 / 1944		17-3	15	
SYMBO		REC	PB	SYMBO		REC	PB	SYMBOL		REC	PB
IC2	GRAAT 123345567-8990-1246		R C U 1 2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	IC7	123456789011234	50502200523055	505022000000000000000000000000000000000		AB A	040023022221240002260	040025022221240002260
	123456783012334567830123345678	3217217748665-6230020566-09055604922	2017-217-7-488615-239000056-0910156049920 21212-121212121212121212121212121212121	IC8	12004001-000-12004	222222220000000000000000000000000000000	222222220000000000000000000000000000000		296 308 308 314 321 328	\$. 8 5.22 0.60 	5.22 5.26 0.0 4.8
IC3	123345567-80	0. 1 0. 1 0. 0 0. 2 0. 2 5. 2	0. 1 0. 1 0. 0 0. 0 5. 2 0. 0 5. 2	IC9	12345678 R A N	0.0 0.0 0.0 5.2 5.2 0.0 S I S T	0.0 0.0 0.0 5.22 0.0				
IC4	12534567890-2545678990	0.51-1-68803260-047-01596662820	05-1-60000000000000000000000000000000000	Q1 CN1	BCE 1AB 2AB 3AB 4AB	0. 0 5. 2 0. 0	020 050. 0 R 2222220-10000555300.				
IC5	123456789011234	50532505505325 505325505505325	505000000000000000000000000000000000000		55667788898ABABABABABABABABABABABABABABABABABA		-				
IC6	12334567899012334 112334	022022202200222			156 168 178 178 188 198 198 208 218 218	441000000010101000992221100 221500000000505500212155400	221500000000000000000000000000000000000				

4-65

4-65



- OPE-VR -BR-S800 ONLY IC12 BA3308F Q13 DTC323TK BR-S800 ONLY A ICP-F15 TRACKING AUD-2/R 33 OPE-VR 2

Α

4-67

4-67

Ε

G

SYMBOL		SYMBOL No.	REC	PB SYN	BOL No.	REC 0.0	PB SYM	BOL No.	REC	PB O 5	— OPE-CPU —	METER2	METER1
IC11	GRATED CIRCUIT 1 6.3 6.3	Q20 B E	4. 1 3. 1 5. 2	3. 1 5. 2	7 2 3	0. 8 0. 1	ý. ý 0. 1 0. 8	10	0.5	0. 55 0. 55 1. 32		08 D7 D6 s	03 02 0
	5 6. 2 6. 3 0. 0 0. 0	Q27 B	4. 1 3. 6 5. 2	4. 1 3. 2 5. 2	5 6 7	0. 5 0. 5 0. 5	0. 5 0. 5 0. 5	13 14 15	2.3 2.6 2.3	2. 3		D10 D9	05
	6. 2 6. 2 8 12. 5 12. 5	Q28 B C	4. 1 3. 4 5. 2	4. 1 3. 0 5. 2	8 10	0. 0 0. 5 0. 5	0. 5 0. 0 0. 5	16 17 18	1. 2 3. 5 3. 0. 0	1. 2 3. 5 0. 8	·		
IC12	1 1.5 1.5 2 0.0 0.0	Q29 B	0. 5 4. 1 0. 0	0.5	13	0.5	0. 5 0. 5 0. 0	20 21 22 22 23 24	12. 8 0. 0 12. 8 0. 0 12. 8 12. 8 10. 0	1.32 3.55 0.88 12.9 0.0 12.9 0.0 12.9	— OPE-DIAL —		TRACKING
	9. 2 9. 2 9. 3 6	Q30 B		0. 0	123 145 156 178	0. 0 5. 1 0. 0	0. 0 5. 2 0. 0					N	CN
	7 1.9 1.8 8 0.0 0.0 9 0.0 0.0	{ C E	0. 5 4. 1 0. 0	0. 0 ICE		5. 2	5. 2 CN2		5. 2 0. 0 5. 1	5. 2 0. 0 5. 2 0. 0	SW31 3 5 PRK10151 A4 OPE-DIAL PWB ASS'Y		
	10 1.8 1.8 11 0.0 0.0	Q31 B C E	0. 4 4. 1 0. 0	0. 5 4. 1 0. 0	2345	0. 0 12. 8 0. 0 12. 8 0. 0 12. 8	12. 9 0. 0 12. 9	50	0.0 0.0 0.0 0.0	0. 0	(PRK10151-01-02)		
IC21	1 0 0 0 0 0	0 Q32 B	0. 5 4. 1 0. 0	0. 5 4. I 0. 0	678	12. 8 0. 0 3. 5	12. 9 0. 8 3. 5	10	0.05 0.55 0.55 0.00	000000000000000000000000000000000000000	ا اقراد	3 2 PRK10151 At OPE-CPU PWB A	· 1
1021	$ \begin{array}{c ccccc} 1 & 0.0 & 0.0 \\ 2 & 0.1 & 0.1 \\ 3 & 0.7 & 0.7 \end{array} $	Q33 B	0. 5 4. 1 0. 0	0. 5 4. 1 0. 0	10	1. 2 2. 3 2. 6	1. 2 2. 3 2. 6		0.005555	0. 5 0. 5 0. 5	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	QPE-CPU PWB A	CNG 10 1 DN4
	5 — — —	Q34 B	0. 0 0. 5 4. 1 0. 0	0.0	13	1. 3	1. 0. 0. 0. 0. 0. 0.	15 16 17	0.7	0. 5 0. 8 0. 1	**************************************		
	$\begin{vmatrix} 8 \\ 10 \end{vmatrix} = {2.2} \begin{vmatrix} - \\ 2.5 \end{vmatrix}$	Q35 B	0. 5 0. 5	0.5	1234567899012234	0.5 0.5 0.5	0. 5 0. 5 0. 5 CN2		0.8	1. 1		(PRK10151-01-02 PE-VR —	2)
	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	C E Q36 B	0. 0	4. 1 0. 0	19 20 21	0.55	0. 5 0. 5 5. 2	29	1.8 0.8 1.8	1. 1 2. 2 1. 2 1. 1	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	15 0.55 0.55 17 0.55 0.55	C E	0. 6 4. 1 0. 0	0. 6 4. 1 0. 0		5. 2 0. 0	0. 0 5. 2 0. 0	ĕ	1. 8 2. 0 0. 8	1:1		3 1 1 3 5 N 1 5 N 1	(PRK10151
_	20 5.1 5.2	3	5. 0	O R CN7	$\begin{bmatrix} 1\\2\\3 \end{bmatrix}$	0. 0 5. 2 0. 0	0. 0 5. 2 0. 0				23 2 3 3 3 4	TOTAL STATE OF THE	110
Q1	RANSISTOR B	- 34 5	4:52:2:2	4. 1 2. 3 2. 6	5 6 7	0.0	0. 0 0. 0 0. 0				g R38	T C10 R66 SW2	2 18 k 12 3
Q11	B 5.1 5.2	- 6 7 8	1.3	2.3 1.3 0.0	10	1 <u>1</u> . <u>3</u> 5. 0 5. 2	1 <u>1</u> . <u>3</u> 5. 0 5. 2				33	5 3 10 R40 SW4 SW3 5 10 MM S	BEO VAL
Q12	B 5.1 5.2 C 0.0 5.2 5.2		0. 0 3. 7 1. 2	0. 0 3. 5 1. 2	13	5542510050	5.54215280020				2	G CP1	SA R56 R57 R56 R57
	B 0.0 0.0 C 5.1 5.2 E 0.0 0.0	3 3	800711122224	1. 2 0. 0 0. 0 0. 7	15 16 17	0. 0 0. 0 5. 1	0. 0 0. 0 5. 2				1 3 PRIVATE OF THE PR	R194 2 VR11 3 R163 2 VR11 R162 2 R184 2 R184 2 R184 R184 R184 R185 R185 R185 R185 R185 R185 R185 R185	012 0 3 KI RI
Q13	B 0.0 0.0 0.0 0.0 E 0.0 0.0	5 6 7	0. 1 5. 2 5. 2	0. 1 5. 2 101	$\frac{18}{1}$	0. 0 0. 0 5. 1 0. 0	0. 0 0. 0 5. 2 0. 0				3 3 PRK101	151 A2 B2 OPE-VR PWB ASS*Y	172 THE TOTAL OF T
Q14	B 0.0 0.0 C 0.0 0.0 E 0.0 0.0	10		5. 2 0. 0 2. 5	345	Ŏ. Ŏ 1. 8	0. 0 0. 0 1. 8				1 2 3	4 5 6 7 8	9 10 10
Q21	B 4.1 4.1 C 3.5 3.6 E 5.1 5.2	- I N. 3	0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 1. 9 11. 3	0. 0 0. 9 0. 0	6 7 8	5. 2 2. 4 4. 2	5. 2 2. 5 4. 2				— OPE-SW —		(PRK10151
Q22	B 4.1 4.1 5.2 C 3.8 3.5 E 5.2 5.2	- 4 5 6 7	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0	10	5.24.220300000210 11.00000210	5. 0 11. 3				D 042 R94 R95 D41 R75 D41 R75 PAUSE PLAY REI	R72 D37 D36 D55 D34 D50	033 032 031 HIF1 03 092 031 HIF1 03 082 084 HIF1 04 084 084 084 084 084 084 084 084 084 0
Q23			0. 0 1. 9 11. 3	0. 8 11. 3	13 14 15	0. 0 0. 0 0. 0	Ŏ. Ŏ O. O					A006 D93 D92	D91 20 20 20 20 20 20 20 20 20 20 20 20 20
	B 4.1 4.1 C 3.7 3.0 E 5.2 5.2	- 1 7 1		0. 0	14 15 16 17 18	0. 0 5. 2 0. 0	0. 0 5. 2 0. 0				B OPE-SW PWB ASS'Y	067	023 029 029 029 029 029 029 029 029 029 029
Q24	B 4.1 4.1 C 3.5 3.5 E 5.2 5.2	4 56 	0. 0 0. 0 0. 32 12. 29 12. 0 0. 0	5. 3 5. 2 5. 2	$\begin{bmatrix} 2 & 1 \\ 2 \\ 3 \end{bmatrix}$	0. 0 5. 2 0. 0	0. 0 5. 2 0. 0				FF STOP REI	3 3 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	D38 S3 S4 D38 S2 S4 S5 SERO REP & ZERO REP & S6 S5 S6
Q25	B 4.1 4.1 C 3.3 3.3 E 5.2 5.2	7 8 9	12. 9 12. 9 0. 0	12. 9 12. 9 0. 0	4 5 6	0.50.50.00.00.00.00.00.00.00.00.00.00.00	0. <u>5</u> 0. <u>5</u>				100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 100 E S 100 9 \$ 100 1	DAG OF TINDEX
		10	0. 0	0.0	8	0. 5 0. 5	0. 5				A 1 2 3 4 4	5 6 D62 7 8 7 5 D61 9	NEP 10

6

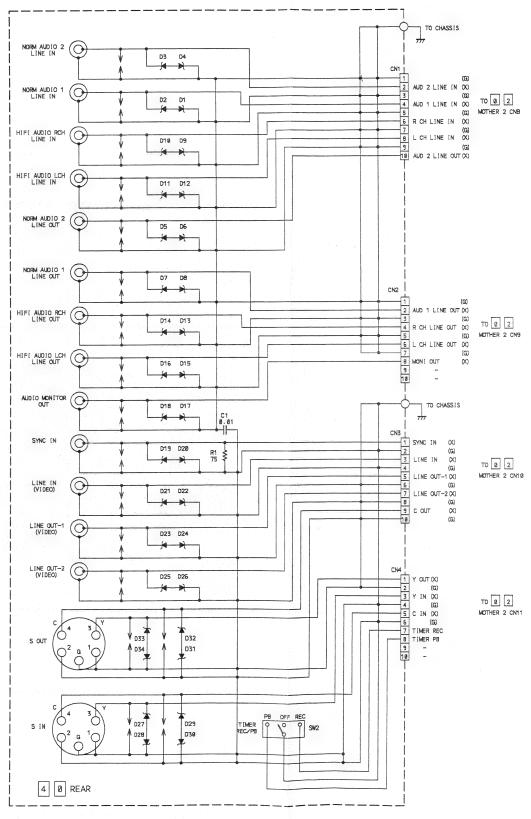
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NOTE: UNLESS OTHERWISE SPECIFIED: ALL ZENER DIODES ARE RD10ES-71B1 ALL RESISTANCE VALUES ARE IN OHMS. (1/8W) ALL CAPACITANCE VALUES ARE IN UF. H CERAMIC

- BR-S800E -



A B C 4-69 E F G H

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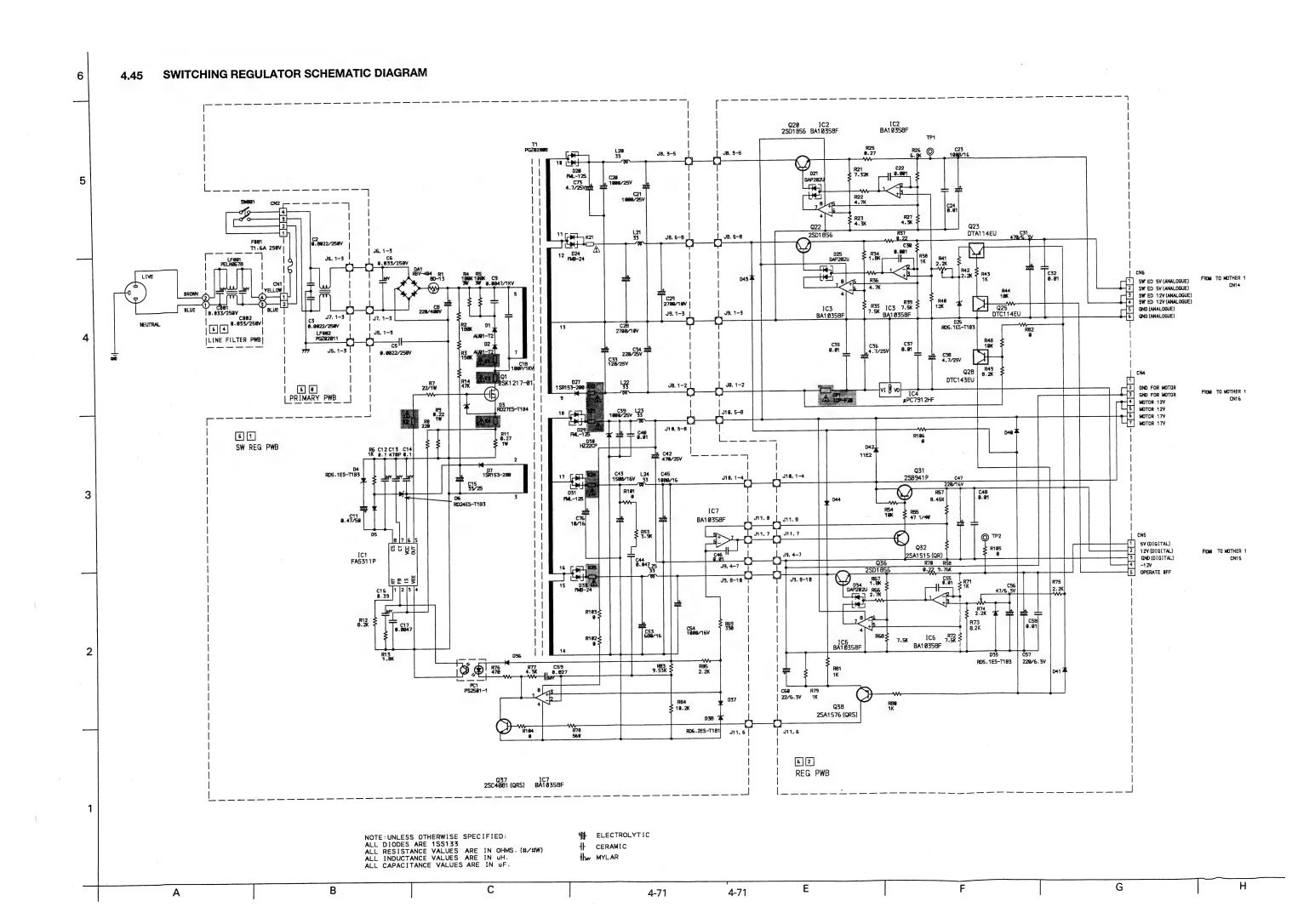
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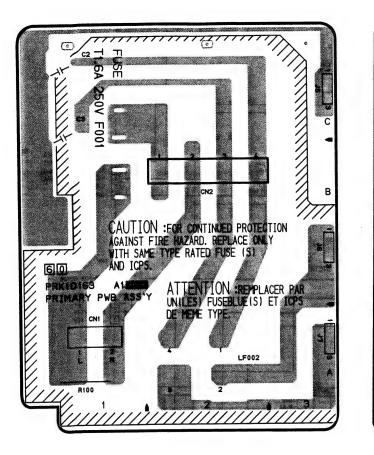
1

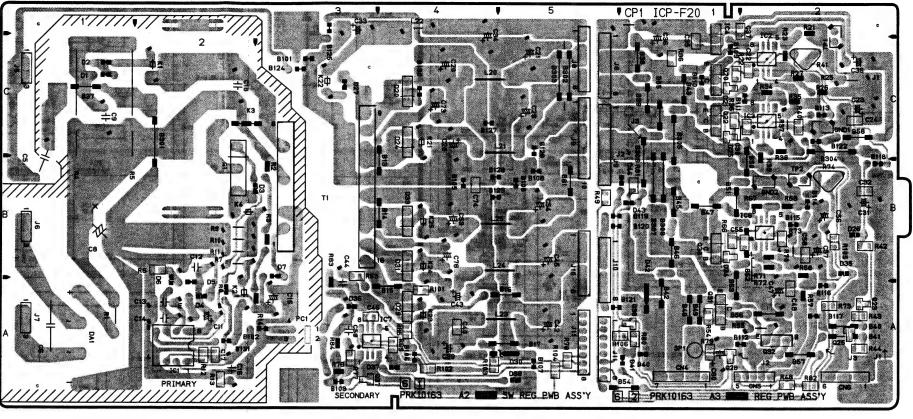
THER PS 2 3 006 4 5 06 77

DD PRK20234 A 10 008
(PRK20234-01-03)

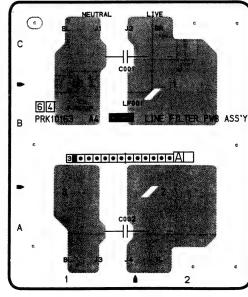
A B C 4-70 E F G H







(PRK10163-01-03)

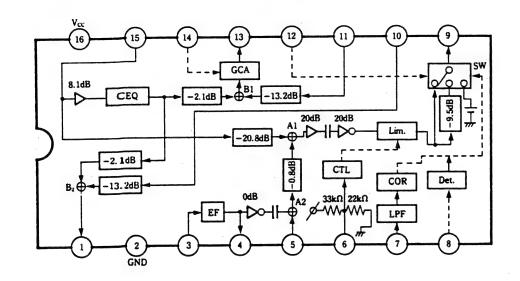


(PRK10163-01-03)

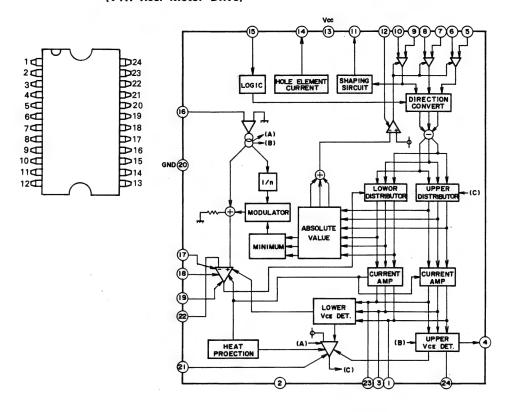
A B C 4-72 4-72 E F G H

4.47 IC BLOCK DIAGRAM

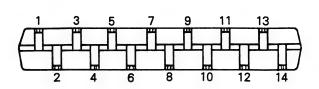
■ AN3497SB [Panasonic] (CHROMA Noise Reduction for VTR)

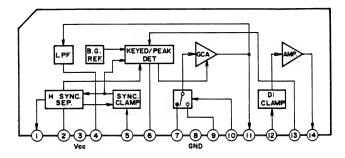


AN3834K [MATSUSHITA] (VTR Reel Motor Drive)



AN3916 [MATSUSHITA] (Video AGC)

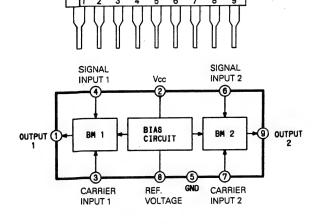




AN6041 [MATSUSHITA] (Dual Balanced Modulator)

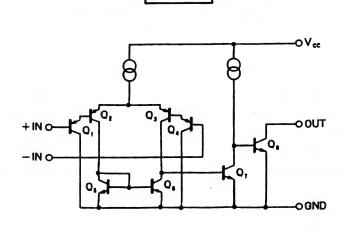
■ AN607P [MATSUSHITA]

(Amp.)

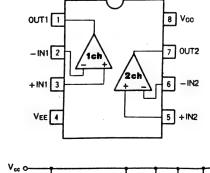


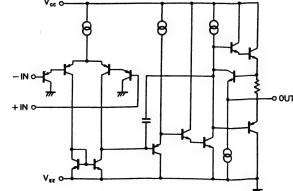
■ BA10339F 【ROHM】 (Quad Comparator)

OUT PUT2

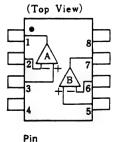


BA10358F [ROHM]
(Dual Ground Sense Op.Amp)





BA10393F [ROHM] (Dual Comparator)



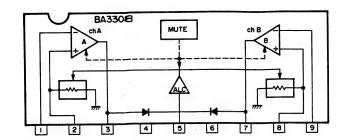


8. V*

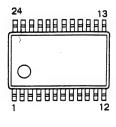
-02 V cc

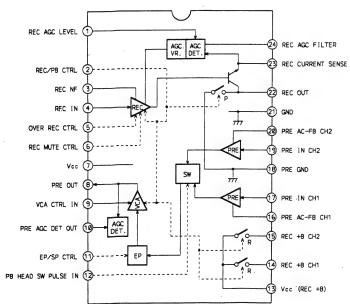
4-73

BA3308F [ROHM] (Dual Pre.Amp With ALC)

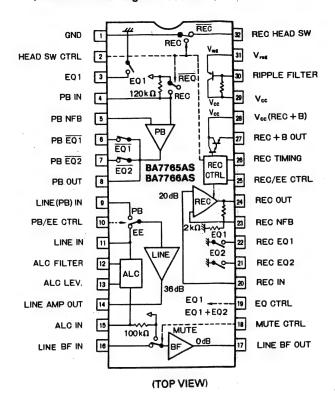


BA7743FS [ROHM] (VTR HiFi Audio Signal REC/PB Amp.)

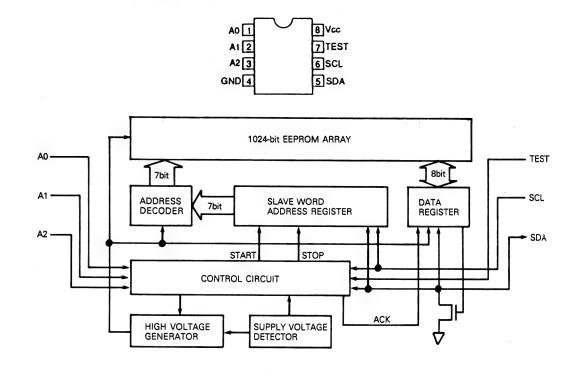




■ BA7765AS [ROHM] (Normal Audio Signal Processor)

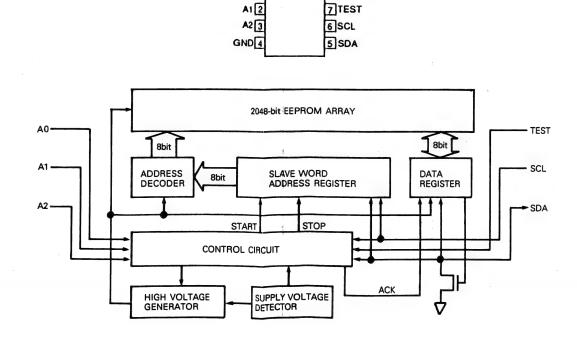


BR24C01AF [ROHM] (IIC Bus 1k Serial EEPROM)

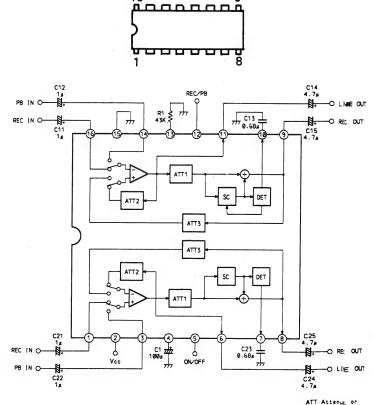


BR24C02F [ROHM]
(IIC Bus 2k Serial EEPROM)

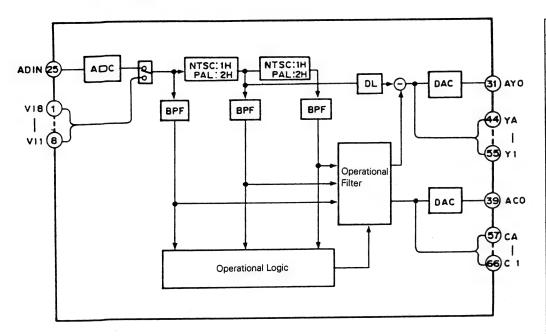
A0 []



CXA1101P [SONY]
(Dolby Noise Reduction Circuit)



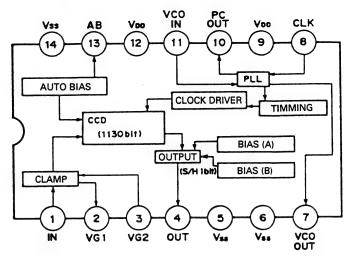
CXD2024Q [SONY] (Digital Comb Filter (NTSC/PAL))



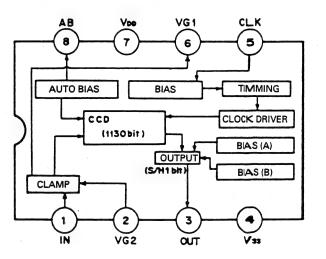
C2 65 40 CVG C1 66 39 ACD XCOE 67 APON 68 RATI 69 NTPL 70 TST 71 DVss 772 DVDD 73 NPL 74 TEST 75 TEST 77 TEST 78 BPF 79 TEST 80		CC3 CC4 CC5 CC7 CCA XYOE YY1 YY2 DV00 DV00 DV00 DV00 VY3 YY3 YY4 YY3 YY4 YY3 YY4 YY7 CV8S	
C1 66 XCOE 67 APON 68 RATI 69 NTPL 70 TST 71 DVss 72 DVDD 73 NPL 74 TEST 75 TEST 76 TEST 77 TEST 77 BPF 779 S9 ACO 38 XACO 39 XACO 39 YVDD 35 YVss 31 YVRF 32 YVG 33 YVRF 30 XAYO 29 YVDD 40 ADVD 71 ADVD 72 ADVD 73 ADVD 74 ADVD 75 ADVD		(64)(63)(62)(61)(60)(59)(58)(57)(56)(55)(54)(53)(52)(51)(50)(49)(48)(47)(46)(45)(49)(43)(42)(41)	
C1 66 XCOE 67 APON 68 RATI 69 NTPL 70 TST 71 DVss 72 DVDD 73 NPL 74 TEST 75 TEST 76 TEST 77 TEST 77 BPF 779 S9 ACO 38 XACO 39 XACO 39 YVDD 35 YVss 31 YVRF 32 YVG 33 YVRF 30 XAYO 29 YVDD 40 ADVD 71 ADVD 72 ADVD 73 ADVD 74 ADVD 75 ADVD	(2.65)	40	o) cve
XCOE 67 APON 68 RATI 69 NTPL 70 TST 71 DVss 72 DVDD 73 NPL 74 TEST 75 TEST 76 TEST 77 TEST 77 TEST 77 TEST 78 BPF 79	\times		/
APON 68 37 CV0D RATI 69	\times		
NPL (74) TEST (75) TEST (76) TEST (77) TEST (78) BPF (79) (31) AYO (29) YVOD (29) YVOD (29) ADVD (27) RT (26) AAVD	\times	(a)	CVOD
NPL (74) TEST (75) TEST (76) TEST (77) TEST (78) BPF (79) (31) AYO (29) YVOD (29) YVOD (29) ADVD (27) RT (26) AAVD	RATI 69	56	y is
NPL (74) TEST (75) TEST (76) TEST (77) TEST (78) BPF (79) (31) AYO (23) YVDD (23) YVDD (23) ADVD (27) RT (26) AAVD	NTPL 70	35	j) YVss
NPL (74) TEST (75) TEST (76) TEST (77) TEST (78) BPF (79) (31) AYO (23) YVDD (23) YVDD (23) ADVD (27) RT (26) AAVD	т s т 🕖	<u>6</u>	YIRF
NPL (74) TEST (75) TEST (76) TEST (77) TEST (78) BPF (79) (31) AYO (23) YVDD (23) YVDD (23) ADVD (27) RT (26) AAVD	DVss 72	(33	YVRF
TEST (75) TEST (76) TEST (77) TEST (78) BPF (79) GO XAYO 29 YVDD 29 ADVD 27 RT 26 AAVD	DV00 (73)	(32	ž) YVG
TEST (76) TEST (77) TEST (78) BPF (79) (29) YVDD (28) ADVD (27) RT (26) AAVD	NPL (74)	31	AYO
TEST 77	\sim	90) XAYO
TEST (78) (27) RT BPF (79) (26) AAVD	\times		
BPF 79	\times		
	\times		
1521 (90)			<
10	~		9 20
1727374757677,8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24	C	1727374757677879/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24	
VIB VIS		V18 V17 V16 V17 V16 V17	

Pin No.	Symbol	1/0	Description				
1	VI8	1	Digital input (MSB) When this pin is out of use, connect it with DVss or DVpp.				
2	VI7	ı	Digital input When this pin is out of use, connect it with DVss or DVpp.				
3	VI6	ı	Digital input When this pin is out of use, connect it with DVss or DVpp.				
4	VI5	1	Digital input When this pin is out of use, connect it with DVss or DVpp.				
5	VI4	ı	Digital input When this pin is out of use, connect it with DVss or DVpp.				
6	VI3	ı	Digital input When this pin is out of use, connect it with DVss or DVDD.				
7	VI2	1	Digital input When this pin is out of use, connect it with DVss or DVpp.				
8	VI1	1	Digital input (LSB) When this pin is out of use, connect it with DVss or DVDD.				
9	ADCO	ı	H: Outputs video signal supplied from A-D converter (input pin: ADIN) as 8-bit digital data which is delayed by 3.5 clocks from Y OUT terminal. L: General operation mode				
10	INSL		Input switching. Switches comb filter input. H: Digital input L: Analog input				
11	OCLK	ı	Clock amp. input. Input clock at a level of 0.8 Vp-p or higher after its DC component is cut off by capacitor.				
12	DVss	_	Digital power ground				
13	DVDD	_	Digital power supply (5 V)				
14	CLKO	0	Clock amp. output				
15	мск	1	Clock input. Input 4 fsc clock locked with color burst to this pin. This pin is generally connected with the pin 14 (clock amp output).				

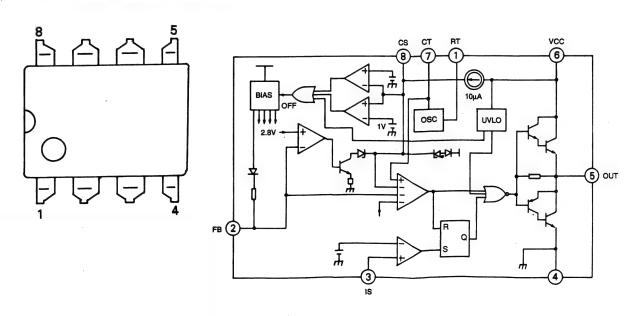
CXL5505M [SONY] (CMOS-CCD 1H Delay Line for PAL)



CXL5506M [SONY] (CMOS-CCD 1H Delay Line for PAL)

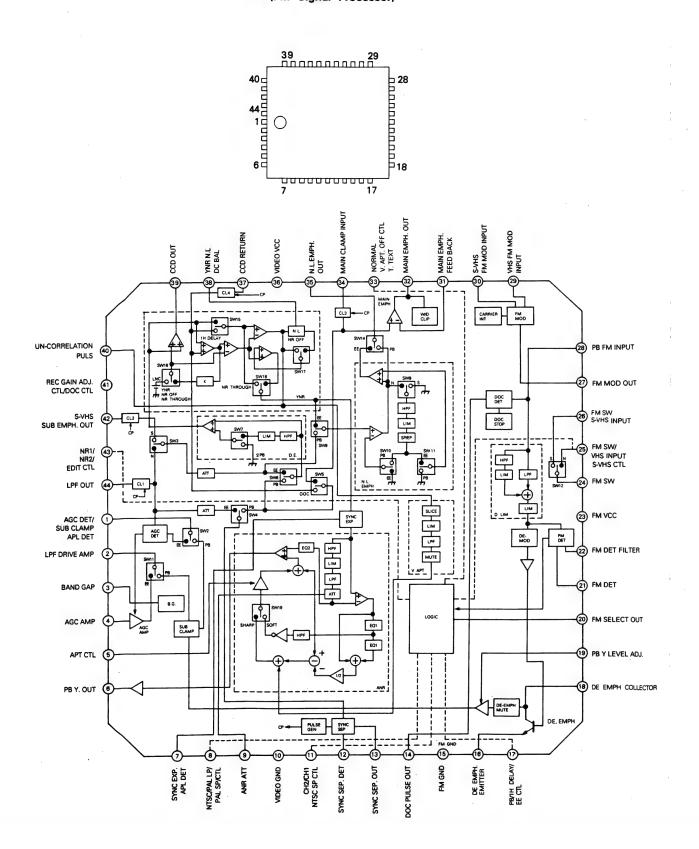


FA5311P [FUJI ELECTRIC] (PWM Switching Regulator)

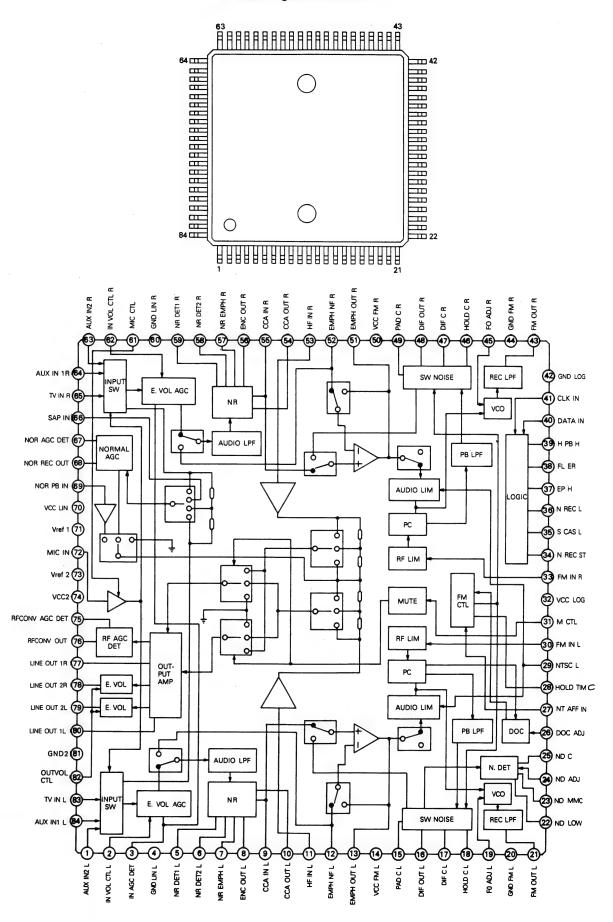


4-75

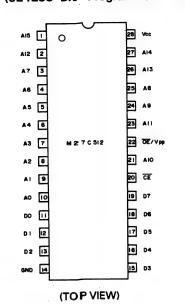
JCP0032-HT [JVC] (FM Signal Processor)



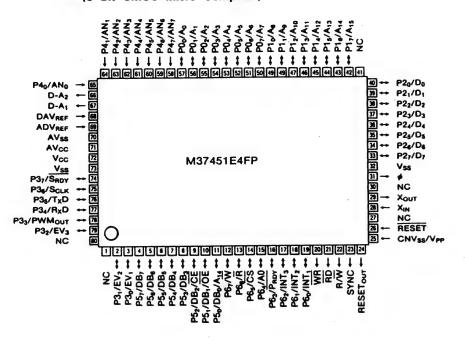
JCP0038 [JVC] (FMA Signal Processor)



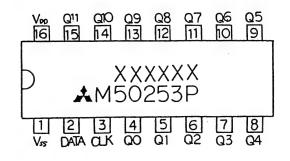
M27C512-15F1 [MITSUBISHI] (524288 Bit Programmed EPROM)



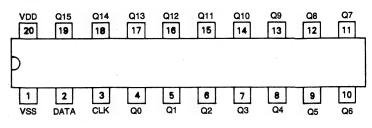
M37451E8-504FP [JVC] (8 Bit CMOS Micro Computer)

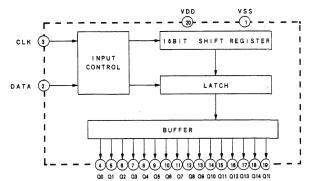


M50253P [MITSUBISHI] (Serial/Parallel Converter)

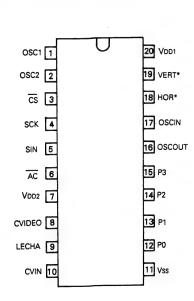


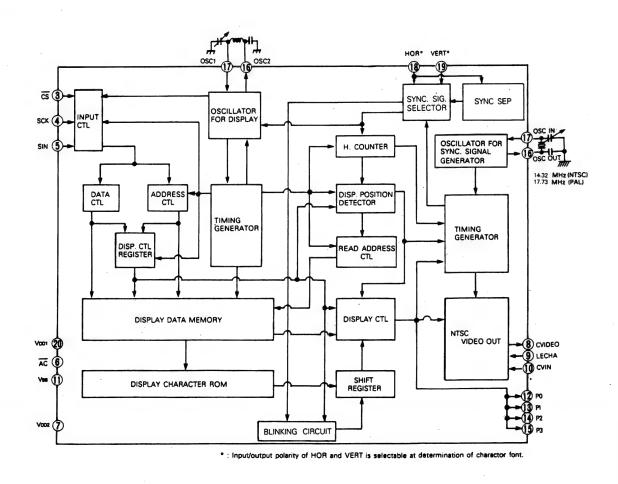
M50255P [MITSUBISHI] (16 Bit Serial/Parallel Converter)



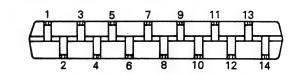


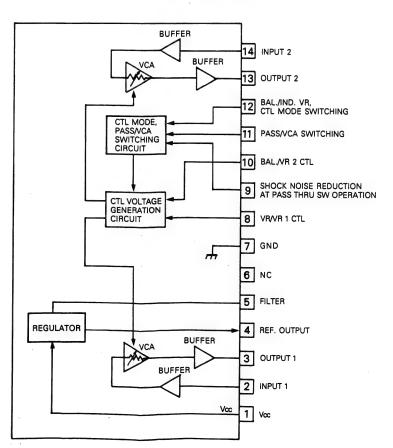
M35010-089SP [MITSUBISHI] (Charactor Generator)



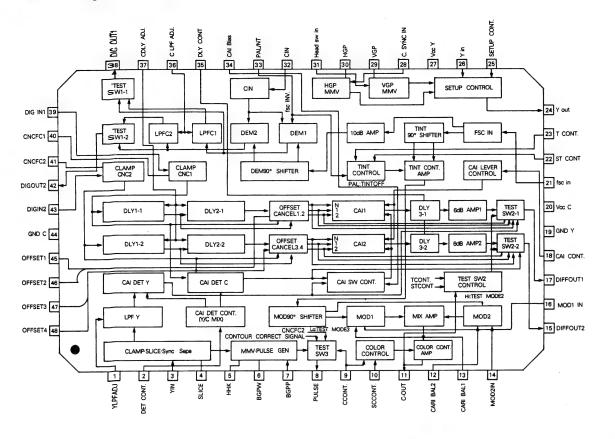


M51132L [MITSUBISHI] (2-Channel Erectrical Volume)

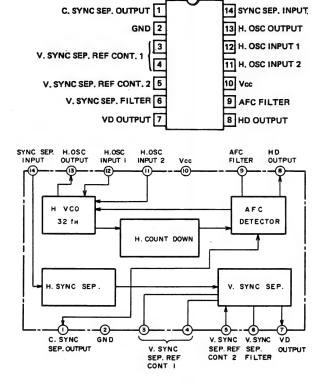




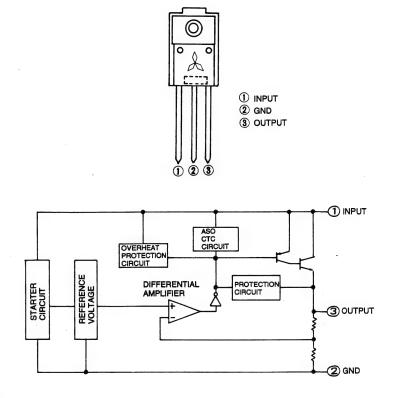
M52350GP [MITSUBISHI] (Color Signal Processer)



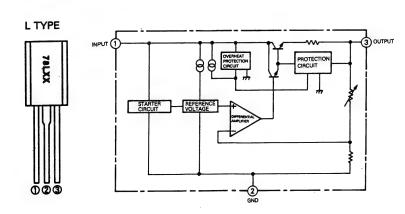
M52684AP [MITSUBISHI] (SYNC Separator and AFC)



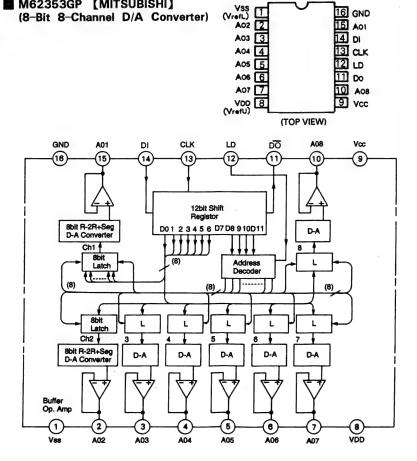
M5278D05 [MITSUBISHI] (3 Terminal Positive Voltage Regulator (+5V)



- M5278D09 [MITSUBISHI] (See M5278D05.)
- M5278L09[MITSUBISHI] (See M5278L05)
- M5278L05 [MITSUBISHI] (3 Terminal Negative Voltage Regulator (-5V))



M62353GP [MITSUBISHI] (8-Bit 8-Channel D/A Converter)



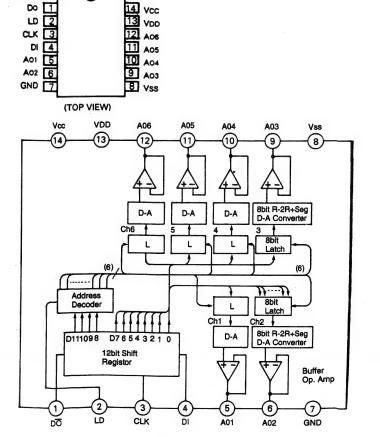
Vss (VrefL) Ao2 2

A03 3 A04 4

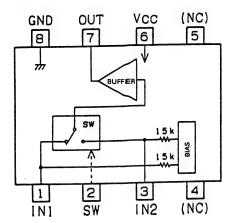
A05 5 A06 6

A07 7

M62354FP [MITSUBISHI] (8-Bit 6-Channel D/A Converter)



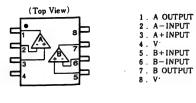
MM1111XF [MITSUMI] (2 Input 1 Output Video Switch)

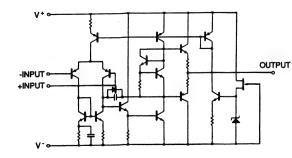


TRUTH TABLE

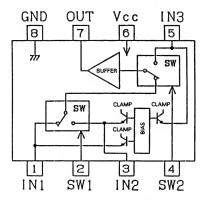
SW	OUT
L	INI
Н	IN2

NJM4560D [JRC] (Dual Op.Amp)





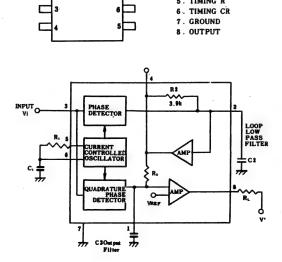
MM1117XF [MITSUMI] (3 Input-1 Output Video Switch)



TRUTH TABLE

SW1	SW2	OUT .
L	L	INI
Н	L	IN2
	Н	IN3

NJM567M [JRC] (Tone Decoder)



1. OUTPUT FILTER

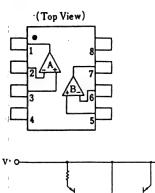
3. INPUT

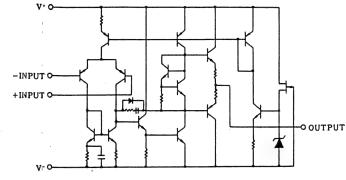
5. TIMING R

2. LOW-PASS FILTER

■ PGD30620C-XX-X [JVC] (See M27C512-15F1.)

NJM2068MD [JRC] (Dual Low-Noise Op.Amp)





1. A OUTPUT

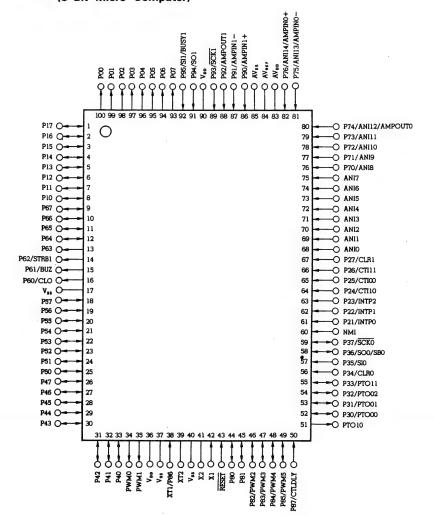
2. A-INPUT 3. A+INPUT

5. B+INPUT

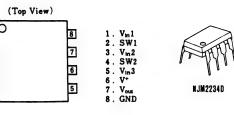
6. B-INPUT

7. B OUTPUT 8. V

SC78148GF-026 [JVC] (8-Bit Micro Computer)



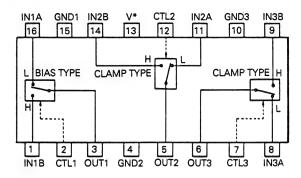
NJM2234M [JRC] (3 Input Single Video Switch)



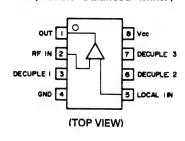
NJM2285M [JRC] (Video Switch)

1

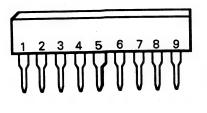
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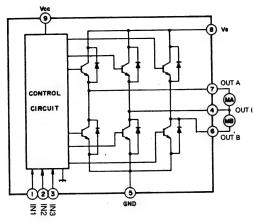


SN16913P [TEXAS]
(Double Balanced Mixer)



TA8405S [TOSHIBA] (DC Motor Driver)



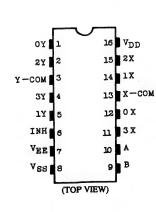


TRUTH TABLE

	INPU	T		INPUT	MODE					
IN 1	IN 2	IN 3	OUT (C)	OUT A	OUT B	MA	MB			
0	0	1/0	*	*	*	STOP	STOP			
1	0	0	Н	L	*	CW/CCW	STOP			
1	0	1	L	Н	*	CCW/CW	STOP			
0	1	0	Н	*	L	STOP	CW/CCV			
0	1	1	L	*	Н	STOP	CCW/CV			
1	1	1/0	L	L	L	BRAKE	BRAKE			

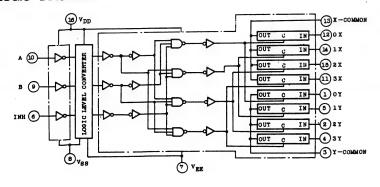
^{*:} High Impedance

TC4052BF [TOSHIBA] (Dual 4 Channel Analog Multiplexers/ Demultiplexers)

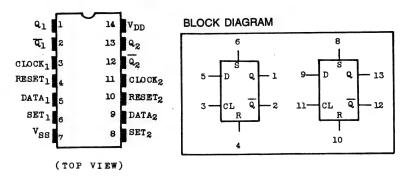


CONTRO	L INF	UTS	"ON" CHANNEL	
INHIBIT	В	A	TC4052BP TC4052BF	
L	L	L	OX, OY	
L	L	Н	1X, 1Y	
L	Н	L	2X, 2Y	
Ľ	Н	Н	3 X , 3 Y	
L	L	L	-	
L	L	Н	-	
L	Н	, L	-	
L	н	н	-	
н	*	*	NONE	

LOGIC DIAGRAM



TC4013BF [TOSHIBA] (Dual D-Type Flip Flop)



TRUTH TABLE

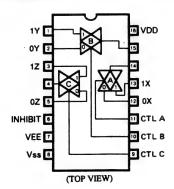
	111	OUTPUTS			
RESET	SET	DATA	CLOCK 🛆	Qn+1	Qn+1
L	Н	*	*	н	L
Н	L	*	*	L	H
Н	Н	*	*	H	н
L	L	L	7	L	Н
L	L	Н	7	H	L
L	L	₩.	7	Qn•	₫n•

- * : Don't Care

 > : Level Change

 : No Change

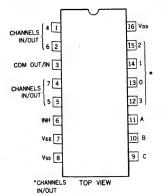
TC4053BF [TOSHIBA] (Triple 2 Channel Analog Multiplexers/ Demultiplexers)



TRUTH TABLE

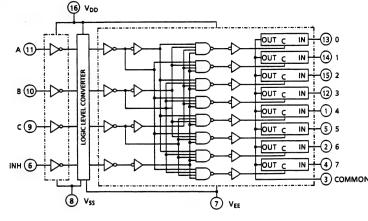
co	NTROL	"ON" CHANNEL		
INHIBIT	С	В	A	4053BP 4053BF
L	L	L	L	0X, 0Y, 0Z
L	L	L	Н	1X, 0Y,0Z
L	L	Н	L	0X, 1Y, 0Z
L	L	Н	Н	1X, 1Y, 0Z
L	Н	L	L	0X, 0Y, 1Z
L	Н	L	Н	1X, 0Y, 1Z
L	Н	Н	ŗ	0X, 1Y, 1Z
L	н	Н	Н	1X, 1Y, 1Z
Н	•	*	•	NOTE
* Dor	n't Care	₽,		

TC4051BF [TOSHIBA] (Single 8 Channel Analog Multiplexers/ Demultiplexers)



CON	TROL	INPUT	S	"ON" CHANNEL
INHIBIT	c≏	В	A	4051
L	L	L	L	0
L	L	L	н	1
L	L	Н	L	2
L	L	Н	н	3
L	Н	L	L	4
L	н	L	Н	5
L	Н	Н	L	6
L	Н	Н	Н	7
Н	*	*	*	NONE

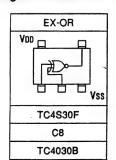
LOGIC DIAGRAM



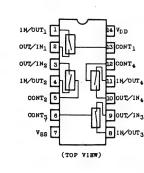
TC4053BP [TOSHIBA]

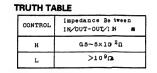
(See TC4053BF.)

TC4S30F [TOSHIBA] (Single Exclusive OR Gate)

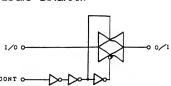




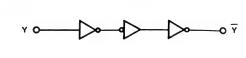


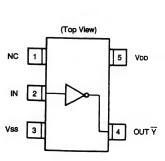


LOGIC DIAGRAM

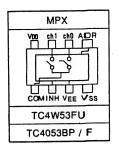


TC4S69F [TOSHIBA] (Inverter Gate)

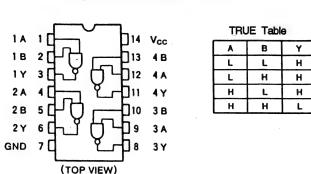




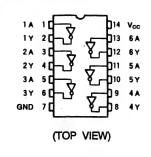
TC4W53F [TOSHIBA] (2-Channel Multiplexer)



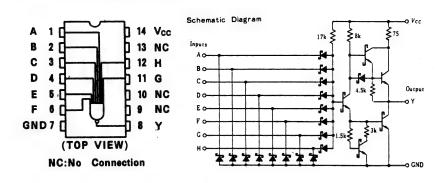
TC74HC00AF [TOSHIBA] (Quad 2-Input NAND Gates)



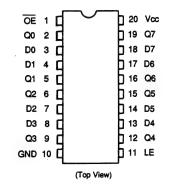
TC74HC04AF [TOSHIBA] (Hex Inverters)

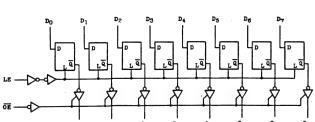


TC74HC30AF [TOSHIBA] (8-Input NAND Gates)



TC74HC373AF [TOSHIBA] (Octal D-Type Latch With NON-Inverted 3-State Output)



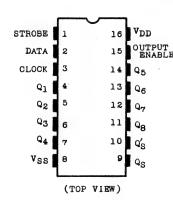


TRUE Table

- 11	NPUT	S	OUTPUTS
OE	LE	D	OUTPUTS
Н	Х	х	Z
L	L	Х	Qn
L	Н	L	L
L	Н	Н	Н

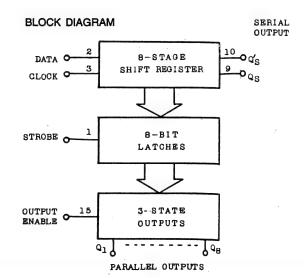
- X : Don't Care
 Z : Hi impedance
 Qn : Q output level before the LE become "L".

TC74HC4094AF [TOSHIBA] (8 Stage Bus Compatible Shift/Store Register)



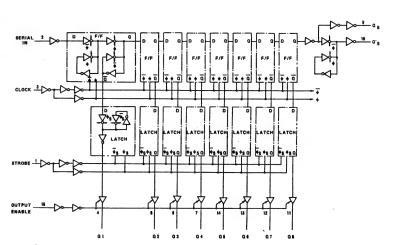
TRUTH TABLE							
		o.h	D	PO		80	
CL	OE	OE ST		Ql	$Q_{\mathbf{n}}$	QS	q_{S}
_5	H	Н	L	L	Q_n-1	Q7	NC
7	Н	Н	Н	Н	Qn-1	Q7	ИС
7	Н	L	*	NC NC		Q7	NC
5	L	*	*	HZ HZ		Q7	NC
J.	Н	*	*	NC	NC	NC	QS
J.	L	*	*	HZ HZ		NC	QS
CI = Clock							

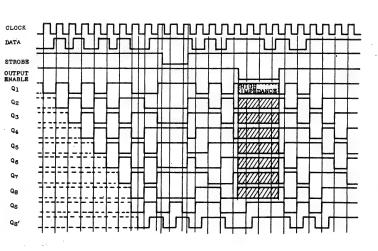
_							-
1	L	*	*	HZ	HZ	NC	QS
	Clock		nable		F = Do: NC=No		
ST=	Strot	HZ = Hi g	gh				
D =	Da ta				Imp	edan	се
PO=Parallel Outputs							
SO =	Seria	1 0u	tput				



INPUTS OUTPUTS ABCDEF G H L X X X X X X Х X Х X х

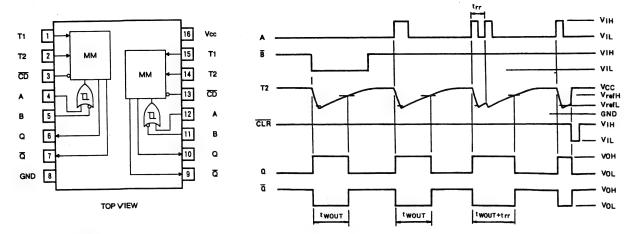
TRUE Table





4-82

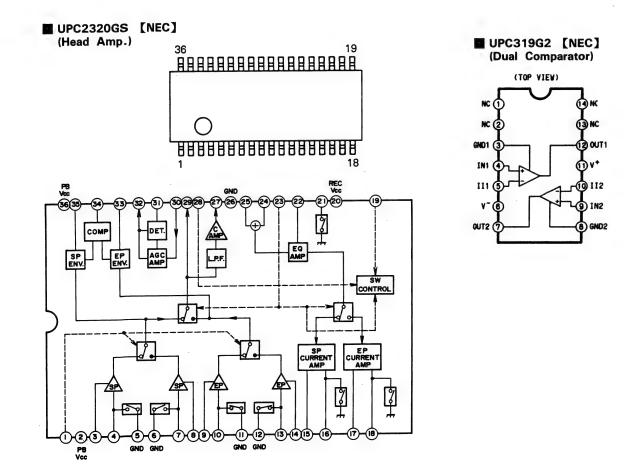
■ TC74HC4538AF 【TOSHIBA】 (Dual Retrig gerable Monostable Multivibrator)



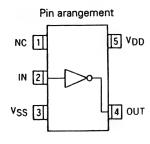
TRUE Table

	INPUT			PUT	NOTE
Α	B	CD	Q	Q	NOTE
	Н	н	4	5	OUTPUT ENABLE
х	L	Н	L	H	INHIBIT
Н	х	Н	L	Н	INHIBIT
L	T.	Н	1	7	OUTPUT ENABLE
X	х	L	L	Н	INHIBIT

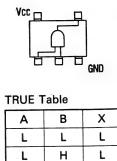
X:Don't Care



TC7S04F [TOSHIBA] (Invertor)



TC7S08F [TOSHIBA] (2 Input Single AND Gate)

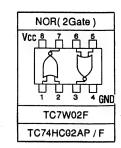


L

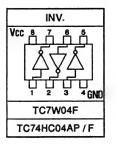
Н

AL ALL	AND
	Vcc
Х	
L	
L	GND
L	TC7S08F
Н	E2
	TC74HC08

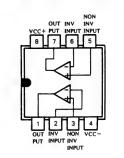
■ TC7W02F 【TOSHIBA】 (2 Input Dual NOR Gate)



TC7W04F [TOSHIBA] (Triple Inverter Gate)



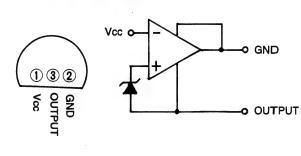




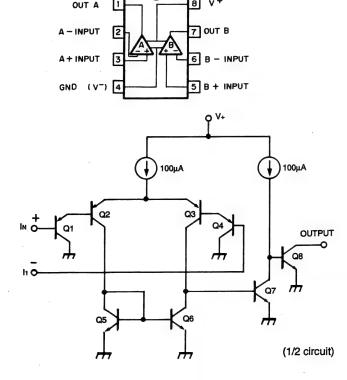
Н

Н

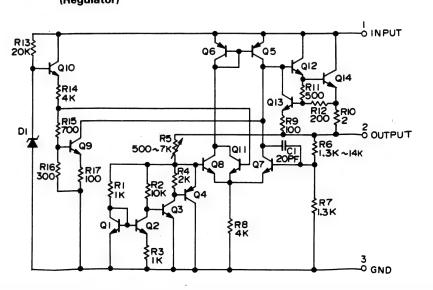
TL431CLP [TOSHIBA] (Voltage Regulator)



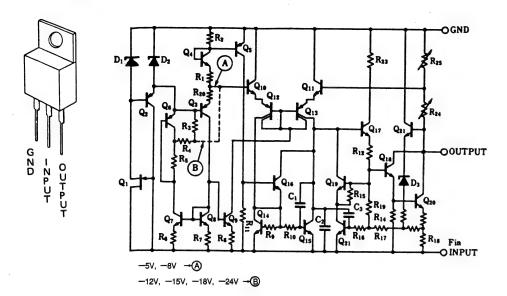
UPC393C [NEC] (Dual Comparator)



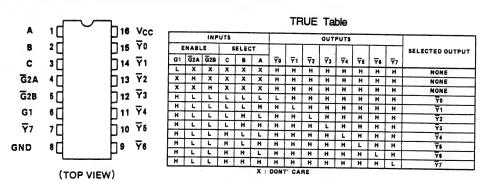
■ UPC78L05T [NEC] (Regulator)



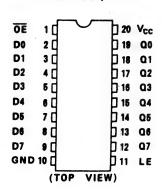
■ UPC7912HF 【NEC】 (3-Terminal Negative Voltage Regulator (-12V))



■ UPD74HC138G [NEC] (3-Line to 8-Line Decoders/Demultiplexers)



■ UPD74HC573GS [NEC] (Octal D-Type Latch With NON-Inverted 3-State Outputs)



OUTPUTS
Q
HZ
Q _n
L
н
_

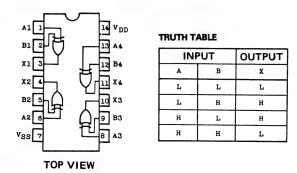
X : Don't care.
Z : Hi impedance

Qn : Level of Q output before LE becomes "L".

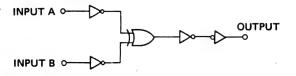
■ UPD4013BG [NEC] (See TC4013BF.)

- UPD4053BG [NEC] (See TC4053BF.)
- UPD4066BG [NEC] (See TC4066BP.)

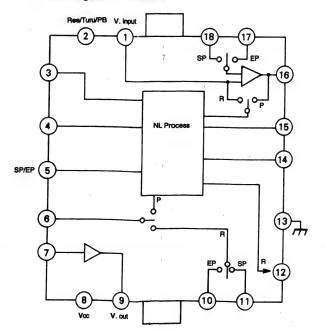
■ UPD4030BG [NEC] (Quad 2 Input Exclusive OR Gate)



BLOCK DIAGRAM

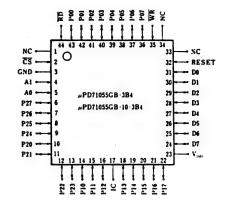


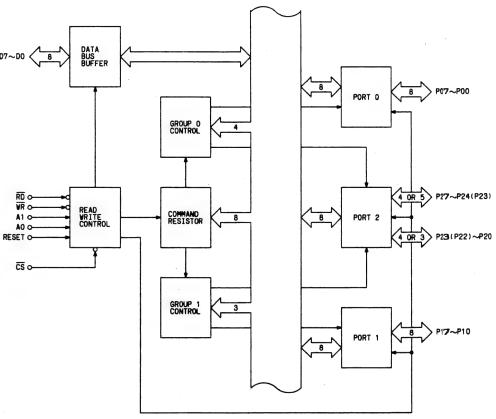
VC2076MP—XE [JVC] (FM Signal Processer)



UPD71055GB [NEC]
(Parallel Input/Output Port)

UPD74HC04G [NEC] (See TC74HC04AF.)





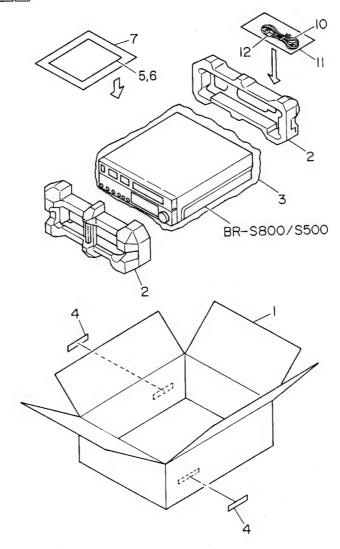
XRA7765AS [ROHM] (See BA7765AS.)

SECTION 5 EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

Parts identified by the $\, \hat{\Delta} \,$ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING assembly M 1

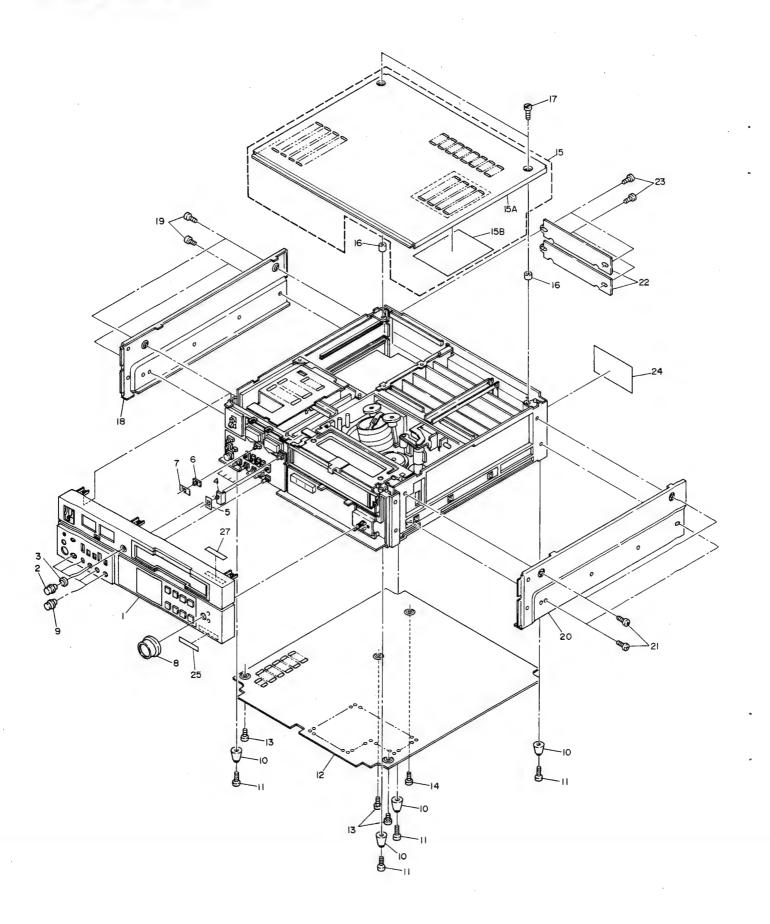


PACKING ASSEMBLY MI

⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1 1 2 3 4 5 6 7 △ 10	PRD20487-05-06 PRD20487-06-06 PRD10321A PUM30021-24 PUP40329 SL96002 SL96015 QPGA025-03505 QMP4250-250	PACKING CASE, BR-S800E PACKING CASE, BR-S500E CUSHION ASSY POLY BAG SERIAL NO.STICKER, ×2 INSTRUCTIONS INSTRUCTIONS POLY BAG POWER CORD
11 12	QPGB020-02804 PUP40003-7	POLY BAG AIR CAP

M1MM

5.2 CABINET assembly M 2

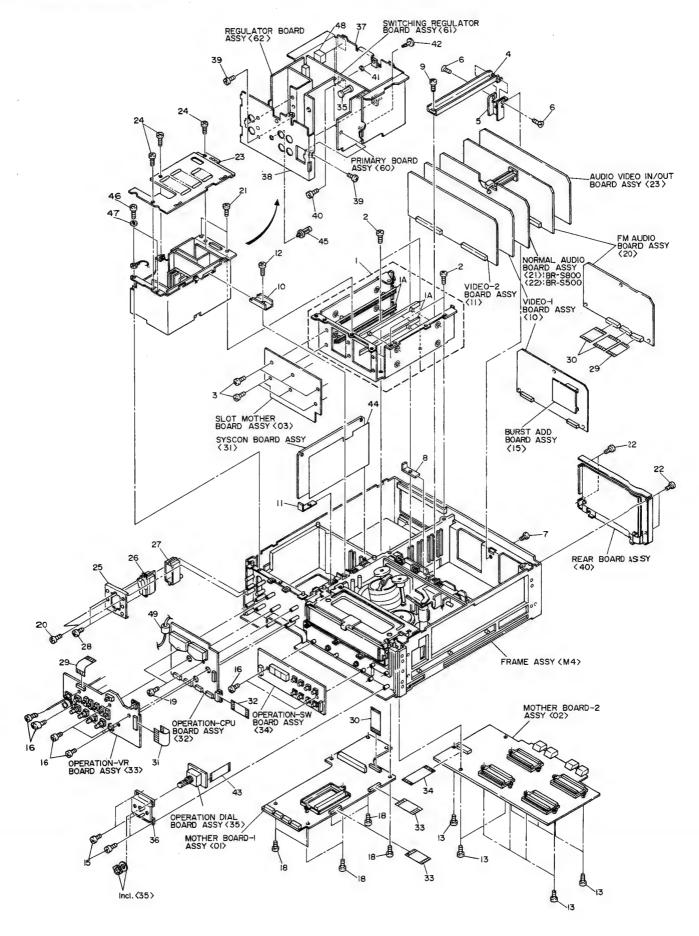


CABINET ASSEMBLY M2

MI 2 MIMI II II

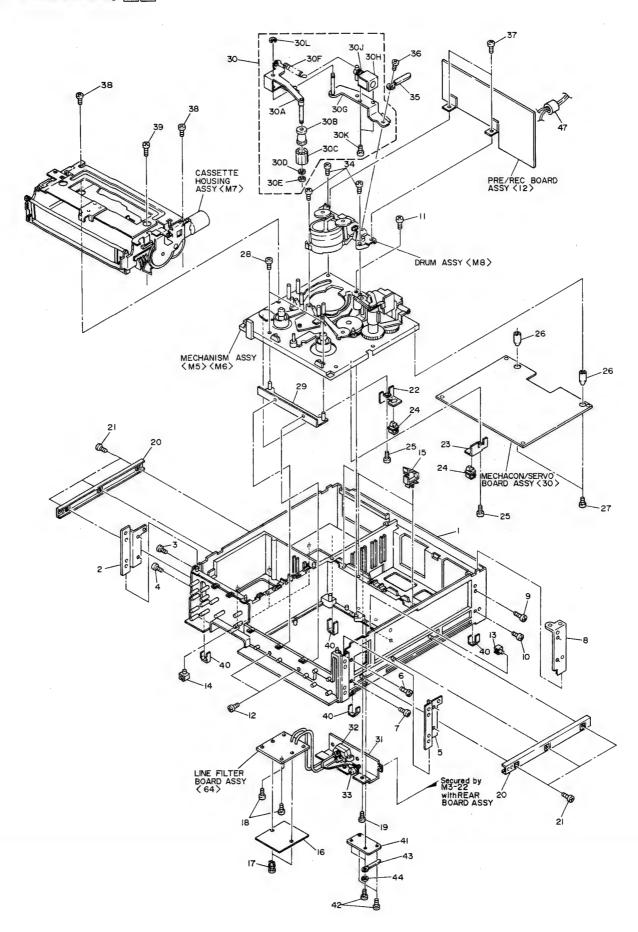
A REF No.	PART No.	PART NAME, DESCRIPTION
1	PRD10320E-08	FRONT PANEL ASSY, BR-S800E
1	PRD10320F-08	FRONT PANEL ASSY, BR-S500E
	PRD30889-01-02	KNOB (VR)
3	PRD30029-08	WASHER
2 3 4 5 6 7	PRD42830	SLIDE KNOB, ×5 BR-S800E, ×4 BR-S500E
5	PRD43146	KNOB PLATE, ×5 BR-S800E, ×4 BR-S500E
6	PRD43835	KNOB (TRACKING)
7	PRD42909-04	KNOB PLATE
8	PGD40035A-1	SEARCH KNOB ASSY
9	PRD31027	KNOB (VR), $\times 5$ BR-S800E, $\times 1$ BR-S500E
10	QZF2319-001	FOOT, ×4
11	SDSF3020Z	SCREW, ×4
$\triangle 12$	PRD10313	BOTTOM COVER
13	SDSF3010Z	SCREW, ×3
14	SDSP3006Z	SCREW
15	PRD20498A-01	TOP COVER ASSY
△ 15A	PRD10310-01-02	TOP COVER
15B	PRD44308	SHADE
16	PGD40255	SPACER, ×2
17	PRD30088-03	COIN SCREW, ×2
△ 18	PRD10311-01-02	SIDE PANEL (LEFT)
19	SXST4008NW	SPECIAL SCREW, ×4
▲ 20	PRD10312-01-02	SIDE PANEL (RIGHT)
21	SXST4008NW	SPECIAL SCREW, ×4
22	PRD31013	PANEL (SLOT), ×2
23	SDSP3014R	SCREW, ×4
△ 24	PRD30085-38-22	RATING LABEL, BR-S800E
△ 24	PRD30085-39-22	RATING LABEL, BR-S500E
25	PQ40111-1-5	SERIAL NO PLATE
27	PRD44337-02	INFORMATION LABEL

5.3 CHASSIS assembly M 3



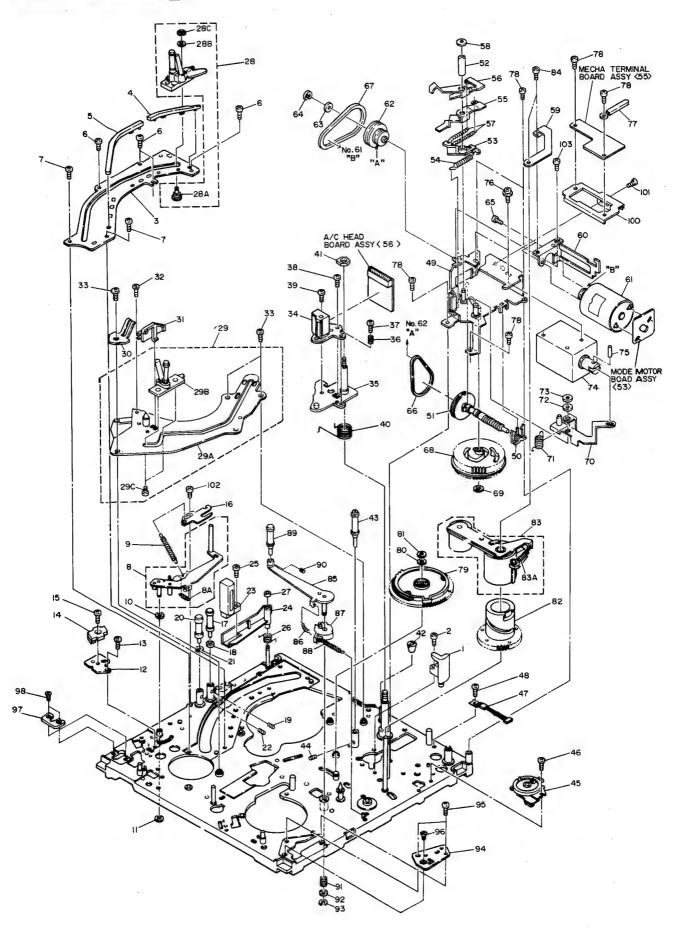
REF No.	PART No.	PART NAME, DESCRIPTION	
1	PRD20491A-01	HOLDER ASSY	
1A	PGZ00493-03	GUIDE RAIL, ×4	
2	SDSF3010Z	SCREW, ×4	
3	SDST3006Z	SCREW, ×6	
4	PRD31022-01-02	HOLDER (A)	
5	PRD44249	BRACKET (BOARD HOLDER)	
6	YQ40689	SPECIAL SCREW, ×2	
7	SDST2606Z	SCREW	1
		LEVER	
8	PRD44250	SCREW	
9	SDSP3010Z		
10	PRD44252	HOLDER (B)	
11	PRD44250	LEVER	
12	SDSP3010Z	SCREW	
13	SDSF3010Z	SCREW, ×11	
15	SDSF3010Z	SCREW, ×4	
16	SDSF3010Z	SCREW, ×8	
18	SDSF3010Z	SCREW, ×7	
19	SDSF3010Z	SCREW, ×2	
20	SDSF3010Z	SCREW, ×2	
24	DDD 44050 05	CODEW	
21	PRD44050-05	SCREW, ×2	
22	SDSF3010R	SCREW, ×4	
23	PRD31024	CASE2	
24	PRD44050-05	SCREW, ×3	
25	PRD44222	BRACKET (POWER SWITCH)	
△ 26	QSE2A21-L01	POWER SWITCH	
△ 27	PRD42023	SWITCH COVER	
28	LPSP3006Z	ASSY SCREW, ×2	
29	PGW0206-050180	FFC, $\times 2$	
30	PGW0206-050300	FFC, ×3	
31	PGW0206-040180	FFC	
32	PGW0206-050240	FFC	
33	PGW0206-090180	FFC, ×2	
34	PGW0206-140300	FFC	
∆ 35	QMF51E2-1R6	FUSE, (F001)	T1.6A
	PRD44221	BRACKET, (SEARCH)	1 1.021
36		CASE1	
37	PRD20489		
38	PRD31019-01-03	HEAT SINK	
39	PRD44050-05	SCREW, ×3	
40	PRD44050-05	SCREW, ×2	
41	WBS3000N	WASHER	
42	PU60010-3	SPACER, ×2	
43	PGW0109-90AC556	FLAT WIRE	
44	PRD44318	SHIELD PLATE, INCLUDED IN <31>	
45	PGZ01128-02	SPACER	
46	SDSF3016Z	SCREW, ×2	
47	WLS3000N	LOCK WASHER, ×2	
48	PRD30030-132	PAD, ×2	
49	PGZ01229	FERRITE CORE	
44.7	T CHOTHRO	SWITCHING REGULATOR ASSEMBLY	

5.4 FRAME assembly M 4



A REF No.	PART No.	PART NAME, DESCRIPTION
A 1	PRD10319-01-03	BOTTOM CHASSIS
2	PRD31000	BRACKET (FRONT-LEFT)
3	SSSP3006Z	SCREW
4	SDSP3006Z	SCREW
5	PRD31000-02	BRACKET (FRONT-RIGHT)
6	SSSP3006Z	SCREW
7	SDSP3006Z	SCREW
8	PRD30999	BRACKET (REAR)
9	SSSP3006Z	SCREW
10	SDSP3006Z	SCREW
	·	
11	SDSF4025Z	SCREW
12	DPSP4010Z	SCREW, ×2
13	PU48016-2	MINI CLAMP
14	PU59311-3	WIRE CLAMP, $\times 3$
15	PGZ00452	L WIRE SADOLE, ×3
16	PRD44271	INSULATOR
17	PGZ01951	PLASTIC RIVET, $\times 2$
18	SDSF3010R	SCREW, ×2
19	SDSP3006Z	SCREW
20	PRD31016	BRACKET (RACK RAIL), ×2
21	SDSF3010Z	SCREW, ×6
22	PRD44274	HINGE L
23	PRD44274 PRD44275	HINGE R
	PGZ00606-03	BOARD HOLDER, ×2
24		SCREW, ×2
25	SDST2605Z	
26	PGZ01961	SNAP COLLAR, ×2
27	SSSG2622Z	SCREW, ×2
28	PRD30082-02	FLANGE SCREW, ×2
29	PRD31017A	BRACKET ASSY
30	PRD30797B	HEAD CLEANER ASSY
30A	PRD43590B	CLEANER ARM SUB ASSY
30B	PQ45689	ROLLER
30C	PQ44837	CLEANER
30D	Q03093-829	WASHER
30E	PQM30017-25	SLIT WASHER
30F	PRD30024-62	TENSION SPRING
30G	PRD43591B	CLEANER BRACKET ASSY
△ 30H	PGZ01973	SOLENOID
30J	PRD30023-36	COMPRESSION SPRING
30K	SPSP2003Z	SCREW, ×2
30L	REE2500	"E" RING
31	PRD31004-03	BRACKET (AC INLET)
∆ 32	PGZ01945	AC INLET
33	LPSP4006Z	SCREW
	LPSP2612Z	SCREW, ×3
34	PU49485-4	WIRE CLAMP
35		SCREW
36	DPSP2606Z	
37	PRD44050-02	SCREW, ×2
38	PRD30027-04	SPECIAL SCREW, ×2
39	SDSP2608Z	SCREW
40	PRD30030-128	PAD, ×4
41	PRD44317	BRACKET
42	SDSF3010Z	SCREW, ×4
43	PU49485-4	WIRE CLAMP, $\times 2$
44	WLS3000N	LOCK WASHER, ×2
47	PU58903	FERRITE CORE

5.5 MECHANISM-1 assembly M 5

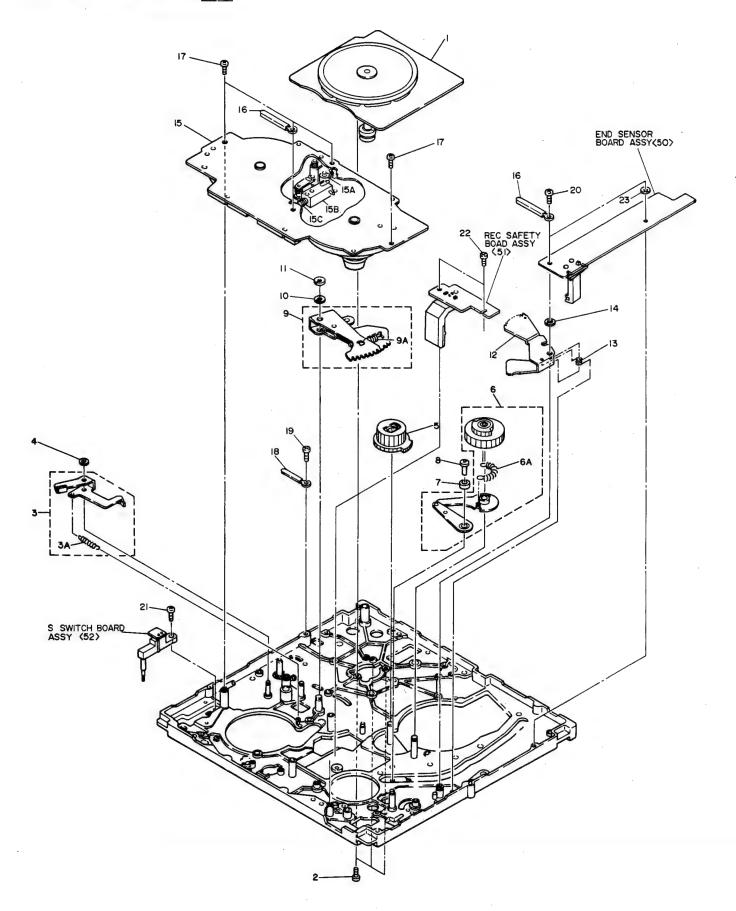


Λ	REF No.	PART No.	PART NAME, DESCRIPTION	
	1	PRD44121-01-01	ARM GUIDE	
	2	SDST2606Z	SCREW	
	3	PRD30806-01-02	SUB DECK (SUPPLY)	
	3 4 5	PQ33995	GUIDE RAIL-2 (SUPPLY)	
	5	PRD30808	GUIDE RAIL-1 (SUPPLY)	
	6	SDST2605M	SCREW, ×4	
	7	SDSP2603.5M	SCREW, ×2	
	8	PRD43638A-01	TENSION ARM ASSY	
	8A	PQM30001-345	TENSION SPRING	
	9	PRD43935	TENSION SPRING	
	10	Q03093-838	WASHER	
ļ	11	PQM30017	SLIT WASHER	
l	12	PRD43466-01-02	TENSION SENSOR BASE	
	13	SDSP2003Z	SCREW	
1	14	PU61338	TENSION SENSOR	
l	15	SDSP2604Z	SCREW	
	16	PRD43902A	SPRING ADJUST ASSY	
1	17	PRD43721A	GUIDE ROLLER ASSY	
Ì	18	PQ45294	"O" RING	
١	19	YFS2603B	SPECIAL SCREW	
	20	PRD43721A	GUIDE ROLLER ASSY	
		70.45004	"O" DING	
	21	PQ45294	"O" RING	
1	22	PQ45295	SPECIAL SCREW	
ı	23	PGZ01841	FULL ERASE HEAD, BR-S800E	
1	24	PRD30817	FE HEAD ARM, BR-S800E	
1	25	SDSF2608M	SCREW, BR-S800E	
	26	PRD44149	TORSION SPRING, BR-S800E	
1	27	PQM30017-6	SLIT WASHER, BR-S800E	
1	28	PRD30809A	POLE BASE (SUPPLY) ASSY	1
	28A	PRD43671-01-02	STOPPER (SUPPLY)	
	28B	Q03093-829	WASHER	
	28C	REE1500	"E" RING	
	29	PRD44032A-01	LOADING (TAKE-UP) ASSY	
1	29A	PRD43627A	GUIDE RAIL (TAKE-UP) ASSY	
1	29B	PRD30811A-02	POLE BASE (TAKE-UP) ASSY	
	29C	PRD43819-02	SPECIAL SCREW, ×2	
1	30	PRD44276	EARTH PLATE	
	31	PRD44268	TAPE GUIDE	
1	32	SDSP2603.5M	SCREW	
1		SDSF2605.5W SDST2605M	SCREW, ×3	
1	33	PGZ01840	AUDIO/CONTROL HEAD	
1	34	PG201840 PRD44127A	HEAD ARM ASSY	
1	35	PRD44127A PQM30002-197	COMPRESSION SPRING	
	36		SCREW	
	37	SDSP2612Z	SPECIAL SCREW	
	38	PQ44621	SPECIAL SCREW SPECIAL SCREW	
	39	PQ43687B	TORSION SPRING	
	40	PQ44119	TOTISION STRUCT	
	41	PQ40353	NYLON NUT	
1	42	PRD44241	TAPER NUT	
	43	PRD44151A-01	GUIDE ROLLER ASSY	
	44	PQ45295	SPECIAL SCREW	
1	45	PU61339-1-1	ROTARY ENCORDER	
1	46	SDSP2004Z	SCREW	
	47	PU61357	DEW SENSOR	
	48	SDSP2604Z	SCREW	
	49	PRD44105A	SOLENOID BRACKET ASSY	
1	44 -7		WORM BEARING-2	

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111	REF No.	PART No.	PART NAME, DESCRIPTION
5	51	PRD44122A	WORM GEAR ASSY
1 5	52	PRD44108	COLLAR
1	53	PQ33992-1-1	LOCK LEVER 1
	54	PQM30001-313	TENSION SPRING
	55	PRD44107	LOCK LEVER 2
	56	PRD30971-01-01	LOCK LEVER 3
	57	PQM30001-314	TENSION SPRING, ×2
	58	PQM30017-6	SLIT WASHER
	59	PRD44103	ARM
	60	PRD30969	MOTOR BRACKET
	61	PRD44123A	MODE MOTOR ASSY
	62	PRD43968	CONNECT PULLEY
	63	Q03093-829	WASHER
	64	REE1200	E RING
	65	SPSP3003Z	SCREW, ×2
	66	PRD30022-17	BELT
	67	PRD30022-18	BELT
	68	PQ21313-1-1	CAM GEAR
	69	PQM30017-12	SLIT WASHER
	70	PRD44106A	SOLENOID LEVER ASSY
	71	PRD44113	TORSION SPRING
	72	Q03093-818	WASHER
	73	PQM30017-12	SLIT WASHER
\triangle		PGZ01845	SOLENOID
	75	PSE3010	SPRING PIN
	76	DPSP3005Z	SCREW, ×2
	77	PU49485-4	WIRE CLAMP
	78	SDST2605Z	SCREW, ×6
	79	PQ21315-1-2	CONTROL CAM
	80	Q03093-849	WASHER
	81	PQM30017-28	SLIT WASHER
	82	PQ21312	PINCH ROLLER CAM
	83	PRD43387A-01	PINCH ROLLER ARM ASSY
	83A	PRD30024-60	TENSION SPRING
	84	SDST2606Z	SCREW, ×2
	85	PRD43658A	GUIDE ARM SUB ASSY
	86	PRD30023-54	COMPRESSION SPRING
	87	PRD44039	GUIDE ARM GEAR
	88	PRD30024-67	TENSION SPRING
	89	PRD43660A-02	GUIDE ROLLER ASSY
	90	YFS2003B	SET SCREW
	91	PRD30023-55	COMPRESSION SPRING
	92	WSS3000Z	WASHER
	93	PQM30017-13	SLIT WASHER
	94	PRD43889	SOCKET R
	95	SDSP2605Z	SCREW, ×2
	96	SSSP2606Z	SCREW
	97	PRD43890	SOCKET L
	98	SDSP2605Z	SCREW, ×2
	100	PRD31029	DECK TERMINAL BOARD STAY
	101	SDST2605Z	SCREW
	103	SDSP2604Z	SCREW

5.6 MECHANISM-2 assembly M 6



MECHANISM-2 ASSEMBLY M6

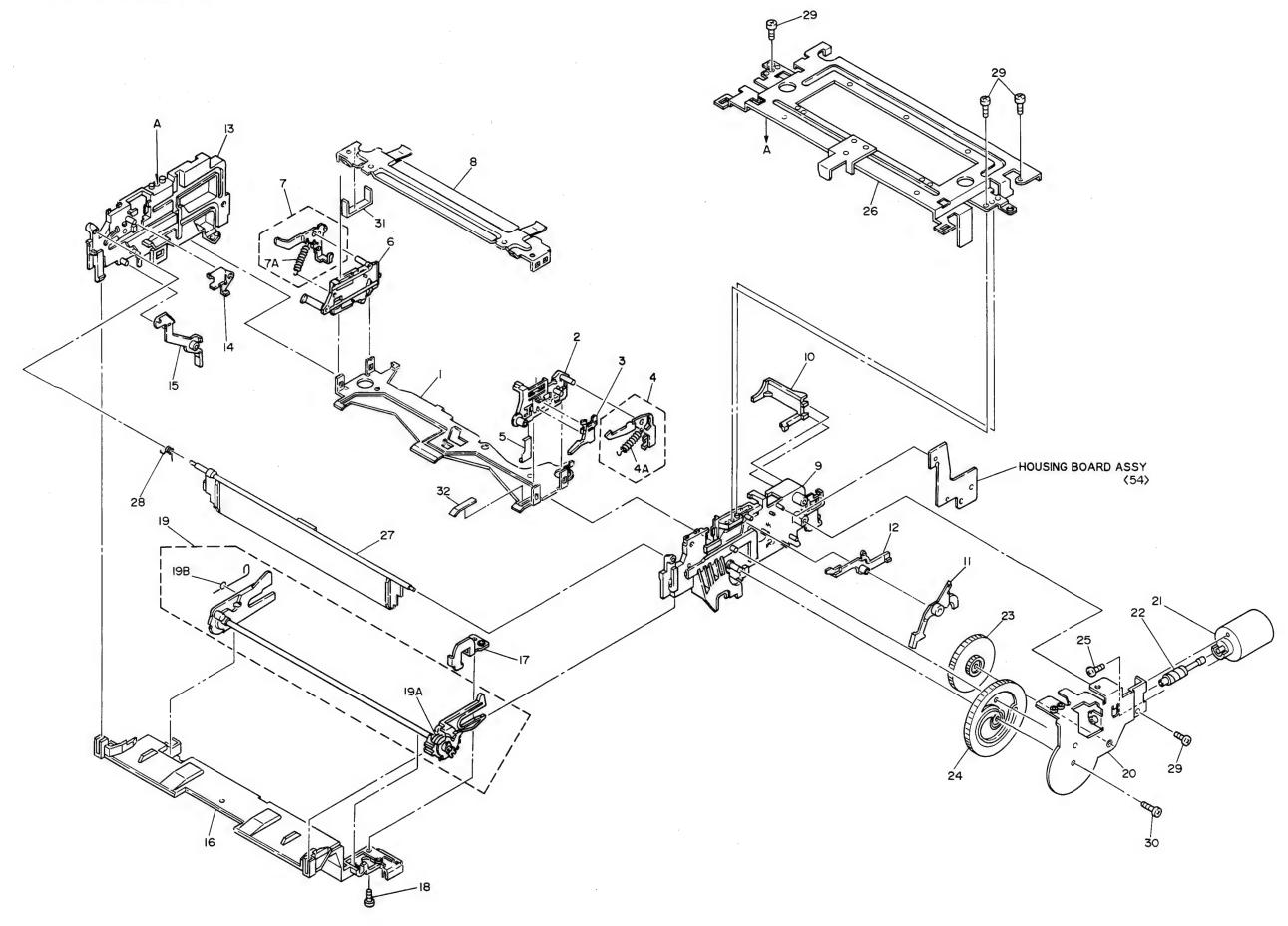
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IIAII		IIAI	INALL				

A REF No.	PART No.	PART NAME, DESCRIPTION
∆ 1	PGZ01535-01-01	CAPSTAN MOTOR
2	SDSP2608Z	SCREW, ×3
3	PRD43479A-01	REEL BRAKE ASSY
3A	PRD30024-58	TENSION SPRING
4	PQM30017-6	SLIT WASHER
5	PQ34033	LOADING GEAR (TAKE UP)
6	PRD43923A	LOADING GEAR (SUPPLY) ASSY
6A	PQM30001-318	TENSION SPRING
7	PRD44019	COLLAR
8	PRD44287	SPECIAL SCREW
9	PQ45306B-3	ARM GEAR ASS'Y
9A	PQM30001-320	TENSION SPRING
10	Q03093-833	WASHER
11	REE3000	"E"RING
12	PQ34007	CANCEL LEVER
13	PQ45313	TORSION SPRING
14	PQM30017-12	SLIT WASHER
△ 15	PGZ01958A	REEL MOTOR
15A	PGZ01958-001	LED HOLDER ASSY
15B	PGZ01958-002	SOLENOID
15C	PGZ01958-003	COMPRESSION SPRING
16	PU49485-4	WIRE CLAMP, $\times 3$
17	SDST2605Z	SCREW, ×4
18	PU49485-4	WIRE CLAMP
19	SDST2605Z	SCREW
20	DPSP2606Z	SCREW, ×2
21	SDST2605Z	SCREW
22	SDST2605Z	SCREW
23	Q03093-826	WASHER

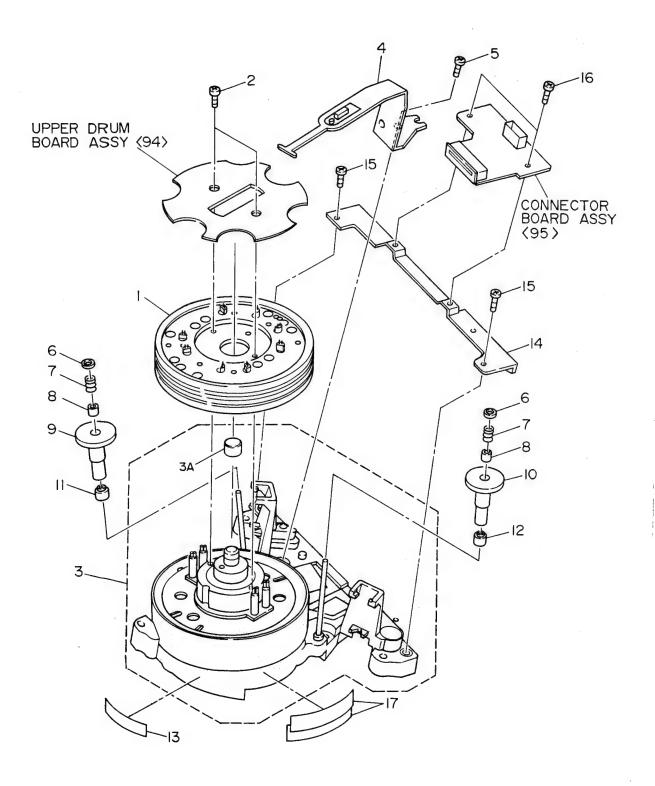
CASSETTE HOUSING ASSEMBLY M7

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11	VI	/	IVI	IIVI		1 1	1 1	

REF No. PART No. PART NAME, DESCRIPTION PGS21023A-01 CASSETTE HOUSING ASSY, INCLUDED 1 PRD20464 CASSETTE HOLDER 2 PQ11278-01-01 SIDE HOLDER (RIGHT) 3 PQ45459 LID OPENER 4 PQ43596A-5 LOCK LEVER (RIGHT) ASSY 4A PQ43597-1-5 TENSION SPRING 5 PRD44285 EARTH PLATE 6 PQ11279 SIDE HOLDER (LEFT) 7 PQ45539A-01 LOCK LEVER (LEFT) ASSY 7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	1 TO 32
1 PRD20464 2 PQ11278-01-01 SIDE HOLDER (RIGHT) 3 PQ45459 LID OPENER 4 PQ43596A-5 LOCK LEVER (RIGHT) ASSY 4A PQ43597-1-5 TENSION SPRING 5 PRD44285 EARTH PLATE 6 PQ11279 SIDE HOLDER (LEFT) 7 PQ45539A-01 LOCK LEVER (LEFT) ASSY 7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	1 TO 32
PQ11278-01-01	
PQ11278-01-01 SIDE HOLDER (RIGHT)	
3	
4A PQ43597-1-5 TENSION SPRING 5 PRD44285 EARTH PLATE 6 PQ11279 SIDE HOLDER (LEFT) 7 PQ45539A-01 LOCK LEVER (LEFT) ASSY 7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
5 PRD44285 EARTH PLATE 6 PQ11279 SIDE HOLDER (LEFT) 7 PQ45539A-01 LOCK LEVER (LEFT) ASSY 7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
6 PQ11279 SIDE HOLDER (LEFT) 7 PQ45539A-01 LOCK LEVER (LEFT) ASSY 7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
7 PQ45539A-01 LOCK LEVER (LEFT) ASSY 7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
7A PQ43597-2 TENSION SPRING 8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
8 PRD30982A HOLDER STAY ASSY 9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
9 PQ11281-01-06 HOUSING STAY (RIGHT) 10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
10 PQ34097 LID GUIDE 11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
11 PQ34098 SENSOR LEVER 12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
12 PRD30946 INSERT SW.LEVER 13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
13 PQ11282-01-07 HOUSING STAY (LEFT) 14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
14 PQ45479-01-02 DOOR STOPPER 15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
15 PQ34100 DOOR OPENER 16 PRD10301-01-02 FRONT BRACKET	
16 PRD10301-01-02 FRONT BRACKET	
17 DDDA9790 DACE DDACWEN	
17 PRD43729 BASE BRACKET	
18 SSSP2606Z SCREW	
19 PQ34103A-04 MAIN ARM ASSY	
19A PRD43806 TORSION SPRING	
19B PQ43605 TORSION SPRING	
20 PRD30983A MOTOR BRACKET ASSY	
△ 21 PQ45489A MOTOR ASSY	
22 PQ45474 WORM GEAR	
23 PQ34109-01-01 CONNECT GEAR	
24 PQ34110-01-01 IDLER CAM	
25 SPSP3003Z SCREW, ×2	
26 PRD30981A TOP FRAME ASSY	
27 PRD30962 CASSETTE HOUSING DOOR	
28 PRD44088 TORSION SPRING	
29 SDSF2608Z SCREW, ×4	
30 SDSF2612Z SCREW	
31 PRD44319 TEPHRON SHEET	
32 PRD30030-130 PAD	



5.8 DRUM assembly M 8



DRUM ASSEMBLY M8

M	8	M	M			
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A REF	PART No.	PART NAME, DESCRIPTION
	LDR2003A LDR2004A	DRUM ASSY, BR-S800E (INCLUDED 1 TO 17) DRUM ASSY, BR-S500E (INCLUDED 1 TO 17)
1 1 2 3 3A 4 5 6 7 8 9	PRD20458B PRD20485B PRD4165A PRD20460B-01 PQ41596D PRD44288A SDSG2606Z PQM30017-25 PRD30023-42 PRD30026-49 PGZ01920 PGZ01920-02	UPPER DRUM ASSY, BR-S800E UPPER DRUM ASSY, BR-S500E DRUM SCREW ASSY, ×2 LOWER DRUM MOTOR ASSY COMMUTATOR BRUSH ASSY SCREW SLIT WASHER, ×2 COMPRESSION SPRING, ×2 COLLAR, ×2 INERTIA ROLLER ASSY (SUPPLY) INERTIA ROLLER ASSY (TAKE-UP)
11 12 13 14 15 16 17	PRD30026-50 PRD30026-51 PDM4067 PRD31025 SDSG2606Z SDSG2606Z PRD43750	COLLAR COLLAR PART NO. LABEL BOARD BRACKET SCREW, ×2 SCREW, ×2 LABEL, ×2

SECTION 6 ELECTRICAL PARTS LIST

Note:

 Parts identified by the ∆ symbol are critical for safety. Replace only with parts having the specified part numbers.

• The parts list in this section applies to both the BR-S800E and the BR-S500E unless the applicable model is specified in the Remark column or the head of respective lists. In that event the part or the P.C. board assembly is for exclusive use of the specified model.

Example 1:

R147 QRSA08J-332YN resistor, BR-S800E 3.3 k Ω , 1/10W 100 In this case, the resistor (R147) is used in the BR-S800E onle.

Example 2:

— AUDIO-6 BOARD ASSY, BR-S800E —

PWBA PRK30066A1 AUDIO-6 Board Ass'y

In the above case, the AUDIO-6 Board Ass'y is the circuit board assembly that is exclusively used for the BR-S800E.

Parts without any remark are used in both the models in common.

01020310

MOTH	ED 1 BOARD	ASSEMBLY <01>	TP1	PGZ01377	STYLE PIN, ×2
WICHT	LR-1 BOALD	HOOLINDE! (0)>			
PWBA	PRK10166A-02	MOTHER-1 BOARD ASSY	CL1	PU59311-3	WIRE CLAMP, ×3
PVVDA	PHR10100A-02	MOTTER'S BOARD ACCT			
			CN1	PGZ01940-44	DIN CONNECTOR
K1	PGZ00354	FERRATE BEADS, × 9	CN2	PGZ01940-44	DIN CONNECTOR
			CN3	PGZ01940-44	DIN CONNECTOR
			CN4	PGZ01940-44	DIN CONNECTOR
BKT1	PRD31002	BRACKET, (FOR 64PIN-DIN)	CN5	PGZ01940-44	DIN CONNECTOR
	•		CN6	PGZ01940-44	DIN CONNECTOR
			CN7	PGZ01940-44	DIN CONNECTOR
CL1	PU59311-3	WIRE CLAMP, ×2	CN8	PGZ01941-10	BOARD CONNECTOR
U L.	1 000011 0	, _	CN9	PGZ01941-10	BOARD CONNECTOR
			CN10	PGZ01941-10	BOARD CONNECTOR
COMM	CDCTARRET	SCREW, × 2	Citio	10201341-10	BOARD CONNECTOR
SCW1	GBST3006Z	•	CN11	PGZ01941-10	ROADD CONNECTOR
SCW2	SDST2606Z	SCREW, × 2			BOARD CONNECTOR
			CN12	PU60711-130	CONNECTOR
		D A SUPPORT	CN13	PU59973-30	CONNECTOR
SPC1	PGZ01031-03	P C SUPPORT	CN14	PU59555-111	CONNECTOR
			CN15	PU59555-109	CONNECTOR
			CN16	PU59555-103	CONNECTOR
TP1	PGZ01377	STYLE PIN, ×4			
CN1	PGZ01940-64	BOARD CONNECTOR			
CN2	PGZ01940-64	BOARD CONNECTOR	SLOT	MOTHER BO	ARD ASSEMBLY < 03>
CN3	PGZ01941-10	BOARD CONNECTOR			
CN4	PGZ01941-10	BOARD CONNECTOR			
CN5	PGZ01941-10	BOARD CONNECTOR	PWBA	PRK20275A	SLOT MOTHER BOARD ASSY
CN6	PGZ01941-10	BOARD CONNECTOR	ITTOA	T MIXEUZ/JA	SECT MOTHER BOARD ASST
CN7	PU60711-118	CONNECTOR			
CN8		CONNECTOR	SW1	OSS1 K31-L01	DIP SW, ×2(SW1-1,SW1-2)
CN9	PU60711-118	CONNECTOR	SW2	QSS1K31-L01	DIP SW, × 2(SW2-1,SW2-2)
	PU59973-30	CONNECTOR	SW3	PU54440	SWITCH
CN10	PU59973-30	CONNECTOR	2442	FU04440	SVALLCH
CN11	PU59555-111	CONNECTOR			
CN12	PU59555-110	CONNECTOR	CN1	PGZ01937-64	MALE CONNECTOR
CN13	PU59555-109	CONNECTOR	CN2	PGZ01940-32	FEMALE CONNECTOR
CN14	PU59555-106	CONNECTOR	CN3	PGZ01940-20	FEMALE CONNECTOR
CN15	PU59555-105	CONNECTOR	CN4	PGZ01940-32	FEMALE CONNECTOR
CN16	PU59555-107	CONNECTOR	CN5	PGZ01940-20	FEMALE CONNECTOR
МОТЬ	IER-2 BOARD	ASSEMBLY <02>	VIDEO	-1 BOARD AS	SSEMBLY <10>
PWBA	PRK10164A-01	MOTHER-2 BOARD ASSY	PWBA	PRK20262A-02	VIDEO1 BOARD ASSY, IR-S800
			PWBA	PRK20262B-02	VIDEO1 BOARD ASSY, IR-S500
BKT1	PRD44292	BRACKET, ×4(FOR 44PIN-DIN)	100		
			IC1	AN3916	IC, BR-S800E
			IC2	CXD2024Q	F IC(DRY)
SCW1	GBST3006Z	SCREW, ×8	IC3	NJM2285M	IC
SCW2	SDST2606Z	SCREW, ×14	IC4	MM1117XF	IC
			IC5	MM1111XF	IC
			IC6	M52062AFP	IC
SPC1	PGZ01031-03	P C SUPPORT, ×3	IC7	CXD2024Q	F IC(DRY)
			IC8	AN3497SB	FIC
					- · -

REF No	, PART No.	PART NAME, DESCRIPTION	#≜REF No.	PART No.	PART NAME, DESCRIPTION
IC10	CXL5506M	F IC(DRY)	Q50	2SC2412K(RS)	TRANSISTOR
IC11	M52350GP	IC	Q52	2SC2412K(RS)	TRANSISTOR
			Q53	2SC2412K(RS)	TRANSISTOR, BR-S800
IC12	TC7W04F	IC			
IC13	TC7W04F	IC	Q54	2SC2412K(RS)	TRANSISTOR, BR-S800
IC14	TC7S08F	IC	Q55	2SC2412K(RS)	TRANSISTOR
		IC	Q58	2SC2412K(RS)	TRANSISTOR
IC15	UPC78 L05T		Q59	2SC2412K(RS)	TRANSISTOR
IC16	UPC78 L05T	IC	1		
IC17	UPC78 L05T	IC	Q60	DTC144EK	TRANSISTOR
			Q61	2SA1037K(QR)	TRANSISTOR
Q 1	2SC2412K(RS)	TRANSISTOR, BR-S800	Q62	DTC144EK	TRANSISTOR
	2SC2412K(RS)	TRANSISTORM, BR-S800	Q63	DTC144EK	TRANSISTOR, BR-5800
O2				DTC144EK	TRANSISTOR, BR-S800
C3	2SC2412K(RS)	TRANSISTOR, BR-S800	Q64		
Q4	2SC2412K(RS)	TRANSISTOR	Q65	2SC2412K(RS)	TRANSISTOR
Q5	2SA1037K(QR)	TRANSISTOR	Q67	2SC2412K(RS)	TRANSISTOR
	2SC2412K(RS)	TRANSISTOR	Q68	2SC2412K(RS)	TRANSISTOR
Q6					TRANSISTOR
Q 7	2SK621	FE TRANSISTOR	Q69	2SC2412K(RS)	
Q 8	2SK621	FE TRANSISTOR	Q70	2SC2412K(RS)	TRANSISTOR
Q9	2SC2412K(RS)	TRANSISTOR, BR-S800			
	2SA1037K(QR)	TRANSISTOR, BR-S800	Q71	2SC2412K(RS)	TRANSISTOR
Q10	20A (U3/ K(UR)	ITATION OIL, DITOUS			TRANSISTOR
			Q72	2SA1037K(QR)	
Q11	2SC2412K(RS)	TRANSISTOR, BR-S800	Q73	2SC2412K(RS)	TRANSISTOR
Q12	2SC2412K(RS)	TRANSISTOR, BR-S800	Q74	2SC2412K(RS)	TRANSISTOR
	2SC2412K(RS)	TRANSISTOR, BR-S800	Q75	2SC2412K(RS)	TRANSISTOR
Q13			Q76		TRANSISTOR
Q14	2SA1037K(QR)	TRANSISTOR, BR-S800		2SC2412K(RS)	
Q15	2SC2412K(RS)	TRANSISTOR, BR-S800	Q77	2SC2412K(RS)	TRANSISTOR
Q16	2SC2412K(RS)	TRANSISTOR	Q78	2SC2412K(RS)	TRANSISTOR
	2SC2412K(RS)	TRANSISTOR	Q79	2SC2412K(RS)	TRANSISTOR
Q17			Q80		TRANSISTOR
Q18	2SA1037K(QR)	TRANSISTOR	Q00	2SC2412K(QR)	INAMOISTON
Q19	2SC2412K(RS)	TRANSISTOR, BR-S800			
Q20	2SC2412K(RS)	TRANSISTOR	Q81	2SA1037K(QR)	TRANSISTOR
-			Q82	2SA1037K(QR)	TRANSISTOR
	40004444V/DO	TOANGETOD	Q83	2SC2412K(RS)	TRANSISTOR
Q 21	2SC2412K(RS)	TRANSISTOR			
Q 22	2SC2412K(RS)	TRANSISTOR	Q84	2SC2412K(RS)	TRANSISTOR
Q23	2SA1037K(QR)	TRANSISTOR	Q86	DTC144EK	TRANSISTOR
Q24	2SC2412K(RS)	TRANSISTOR, BR-S800	Q87	2SC2412K(RS)	TRANSISTOR
		TRANSISTOR	Q88	2SC2412K(RS)	TRANSISTOR
Q 25	2SC2412K(RS)				
Q26	2SA1037K(QR)	TRANSISTOR, BR-S800	Q89	2SC2412K(RS)	TRANSISTOR
Q27	2SC2412K(RS)	TRANSISTOR, BR-S800	Q90	2SC2412K(RS)	TRANSISTOR
Q29	2SA1037K(QR)	TRANSISTOR			
		TRANSISTOR	Q91	2SC2412K(RS)	TRANSISTOR
Q30	DTC144EK	TIMINOUTON			
			Q92	2SC2412K(RS)	TRANSISTOR
Q 31	2SC2412K(RS)	TRANSISTOR	Q93	2SC2412K(RS)	TRANSISTOR
Q 32	2SC2412K(RS)	TRANSISTOR	Q94	2SC2412K(RS)	TRANSISTOR
Q33	2SA1037K(QR)	TRANSISTOR	Q95	DTC144EK	TRANSISTOR
			Q96		
Q 34	2SC2412K(RS)	TRANSISTOR		2SC2412K(RS)	TRANSISTOR
Q 35	2SC2412K(RS)	TRANSISTOR	Q97	DTC144EK	TRANSISTOR
Q36	2SC2412K(RS)	TRANSISTOR	Q98	2SC2412K(RS)	TRANSISTOR
Q37	2SC2412K(RS)	TRANSISTOR	Q99	2SC2412K(RS)	TRANSISTOR
		TRANSISTOR			
Q 38	2SC2412K(RS)				
Q 39	2SC2412K(RS)	TRANSISTOR		- 4 444	
Q40	2SA1037K(QR)	TRANSISTOR	D1	DAN202K	DIODE
			D2	DAP202K	DIODE
011	1001111V/D0\	TRANSISTOR	D3	DAN202K	DIODE
Q41	2SC2412K(RS)				
Q 42	2SC2412K(QR)	TRANSISTOR	D4	DAN202K	DIODE
Q43	2SC2412K(QR)	TRANSISTOR	D5	DAN202K	DIODE
Q44	2SC2412K(QR)	TRANSISTOR	D6	DAN202K	DIODE
Q 45	2SA1037K(QR)	TRANSISTOR	D7	DAN202K	DIODE
Q 46	2SC2412K(RS)	TRANSISTOR	D8	DAN202K	DIODE
	2SC2412K(RS)	TRANSISTOR			
C)47			1		
Q47		TRANSISTOR			
Q47 Q48 Q49	2SC2412K(RS) 2SC2412K(RS)	TRANSISTOR TRANSISTOR	R1	NVP1416-502N	V RESISTOR, BR-Sig Ø 5kΩ,1,

#AREF No.	DART No	PART NAME, DES	CRIPTION	#AREF No.	PART No	PART NAME, D	FSCRIPTION
#A HEF NO.	NVP1416-201N	V RESISTOR, BR-S80		#25 REF 140.	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W
R2 R3	NVP1416-201N	V RESISTOR, BR-S80		R148	QRSA08J-101YN	RESISTOR, BR-S80	
R4	NVP1415-503N	V RESISTOR, BR-S80		R149	QRSA08J-102YN	RESISTOR, BR-S80	
R5	NVP1415-102N	V RESISTOR	1kΩ,1/4W	R150	QRSA08J-681YN	RESISTOR, BR-S80	
	NVP1416-202N	V RESISTOR	2kΩ,1/4W	11100	211071000 001111	THEOLOTOTI, DITCO	0 000 64 ,1 / 10 88
R6	NVP1416-202N	V RESISTOR	2kΩ,1/4W	R151	QRSA08J-331YN	RESISTOR, BR-S80	0 330Ω,1/10W
R7	NVP1416-503N	V RESISTOR	50kΩ,1/4W	R152	QRSA08J-201YN	RESISTOR	200 Ω ,1 / 10W
R8	NVP1416-103N	V RESISTOR	10kΩ,1/4W	R153	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W
R9	NVP1416-103N	V RESISTOR	10kΩ,1/4W	R154	QRSA08J-201YN	RESISTOR	200 Ω ,1 / 10W
R10	MALIA10-10314	4 HESISTON	10844,1/ 710	R155	QRSA08J-272YN	RESISTOR	$2.7k\Omega$, $1/10W$
D11	NVP1416-103N	V RESISTOR	10kΩ,1/4W	R156	QRSA08J-153YN	RESISTOR	15kΩ,1/10W
R11	NVP1416-103N	V RESISTOR	10kΩ,1/4W	R157	QRSA08J-750YN	RESISTOR	75Ω,1/10W
R12 R13	NVP1416-102N	V RESISTOR	1kΩ,1/4W	R158	QRSA08J-393YN	RESISTOR	39kΩ ,1 / 10W
Ria	14771410-10214	* IILDIOI OII	IR44,1/ 400	R159	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
D101	QRSA08J-750YN	RESISTOR, BR-S800	75Ω,1/10W	R160	QRSA08J-201YN	RESISTOR	200 Ω ,1 / 10W
R101	QRSA08J-750YN	RESISTOR, BR-S800	75Ω,1/10W	11100	CHOMOUS-EST THE	TILOIO TOTT	200 44 ,1 / 10 84
R102	QRSA08J-333YN	RESISTOR, BR-S800	33kΩ,1/10W	R161	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R103	QRSA08J-273YN	RESISTOR, BR-S800	27kΩ,1/10W	R162	QRSA08J-201YN	RESISTOR	200Ω,1/10W
R104		RESISTOR, BR-S800	$1.5k\Omega$, $1/10W$	R163	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R105	QRSA08J-152YN	RESISTOR, BR-S800	33kΩ,1/10W	R164	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R106	ORSA08J-333YN	RESISTOR, BR-S800	27kΩ,1/10W	R165	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R107	QRSA08J-273YN	RESISTOR, BR-S800	$1.5k\Omega$, $1/10W$	R166	NRVA62D-102N	RESISTOR	1kΩ,1/16W
R108	QRSA08J-152YN	RESISTOR, BR-S800	$1.2k\Omega$, $1/10W$	R167	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10 W
R109	QRSA08J-122YN	RESISTOR, BR-S800	3.3kΩ .1/10W	R168	NRVA62D-681N	RESISTOR	680 Ω ,1 / 16W
R110	QRSA08J-332YN	חנטופורטה, בחיספונים	J.JK44,1/ 1044	R170	QRSA08J-0R0Y	RESISTOR, BR-S80	
D444	QRSA08J-0R0Y	RESISTOR, BR-S800	0Ω,1/10W	I III	Q1104000-01101	neoloton, briodi	0 12,17 1044
R111	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	R171	QRSA08J-152YN	RESISTOR, BR-S80	0 1.5kΩ,1/10W
R112	QRSA08J-183YN	RESISTOR, BR-S800	18kΩ,1/10W	R172	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R113	QRSA08J-273YN	RESISTOR, BR-S800	27kΩ,1/10W	R173	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R114	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R174	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R115	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R175	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W
R116 R117	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R176	QRSA08J-201YN	RESISTOR	200 Ω ,1 / 10W
R118	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R177	QRSA08J-201YN	RESISTOR	200 Ω ,1 / 10 W
R119	QRSA08J-182YN	RESISTOR	$1.8k\Omega$, $1/10W$	R178	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R120	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10W	R179	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
NIZU	QD34003-301114	HEMOTOT	300 62 ,1 / 10 88	R180	QRSA08J-222YN	RESISTOR	2.2kΩ ,1 / 10W
R121	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W	11100	CI 10/1008-222 14	TILOIDTOIT	2.2844,17 1011
R122	QRSA08J-750YN	RESISTOR, BR-S800	75Ω,1/10W	R181	NRVA62D-102N	RESISTOR	1kΩ,1/16W
R123	QRSA08J-561YN	RESISTOR, BR-S800		R182	QRSA08J-101YN	RESISTOR	100Ω,1/10W
R124	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10W	R183	NRVA62D-102N	RESISTOR	1kΩ,1/16W
R125	QRSA08J-333YN	RESISTOR, BR-S800	33kΩ,1/10W	R184	QRSA08J-101YN	RESISTOR	100Ω,1/10W
R126	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	R185	NRVA62D-751N	RESISTOR, BR-S80	
R127	QRSA08J-681YN	RESISTOR, BR-S800	680 Ω ,1/10W	R186	NRVA62D-681N	RESISTOR, BR-S80	
R128	QRSA08J-222YN	RESISTOR, BR-S800	2.2kΩ,1/10W	R187	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R129	QRSA08J-223YN	RESISTOR, BR-S800	22kΩ,1/10W	R188	QRSA08J-681YN	RESISTOR, BR-S80	
R130	QRSA08J-273YN	RESISTOR, BR-S800	27kΩ,1/10W	R189	QRSA08J-471YN	RESISTOR, BR-S80	
11100	CHONOUS ENDIN	112001011, 2110000	27 832 ,17 1000	R190	QRSA08J-103YN	RESISTOR, BR-S80	· ·
R131	QRSA08J-181YN	RESISTOR, BR-S800	180 Ω ,1/10W		Q11071000 100111	7120101011, 511000	10888,17 1010
R132	QRSA08J-181YN	RESISTOR, BR-S800	180 Ω ,1 / 10W	R191	QRSA08J-181YN	RESISTOR, BR-S80	0 180Ω,1/10W
R133	NRVA62 D-751 N	RESISTOR, BR-S800	750 Ω ,1/16W	R192	QRSA08J-181YN	RESISTOR, BR-S80	
R134	NRVA62D-102N	RESISTOR, BR-S800	1kΩ,1/16W	R193	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R135	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	R194	QRSA08J-103YN	RESISTOR, BR-S80	
R136	QRSA08J-391YN	RESISTOR, BR-S800	390 Ω ,1 / 10W	R195	QRSA08J-181YN	RESISTOR, BROOK	180 Ω ,1 / 10W
R137	NRVA62D-152N	RESISTOR, BR-S800	$1.5k\Omega$, $1/16W$	R198	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R138	QRSA08J-391YN	RESISTOR, BR-5800	390 Ω,1/10W	R199	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R139	QRSA08J-333YN	RESISTOR, BR-5800	33kΩ,1/10W	R200	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10W	N200	7110400-1031N	HEODION	14471 1 10 AA
R140	71104002-109 IN	חוטוטוטות, מריסווו	10K94.1/ 10AA	R201	QRSA08J-683YN	RESISTOR	68kΩ ,1/10W
R141	QRSA08J-222YN	RESISTOR, BR-S800	2.2kΩ,1/10W	R201	QRSA08J-105YN	RESISTOR	1MΩ,1/10W
	QRSA08J-561YN	RESISTOR, BR-5800	560 Ω,1/10W			RESISTOR	180 Ω ,1 / 10W
R142	QRSA08J-561YN	RESISTOR, BR-5800	560 Ω ,1 / 10W	R203	ORSA08 L105 VN		
R143	QRSA08J-101YN	RESISTOR, BR-S800	100 Ω ,1 / 10W	R204 R205	QRSA08J-105YN QRSA08J-102YN	RESISTOR, BR-S80 RESISTOR	1kΩ,1/10W
R145	QRSA08J-122YN						
R146	UNDAUGJ-124 IN	RESISTOR, BR-S800	1.2 k Ω , $1/10$ W	R206	QRSA08J-181YN	RESISTOR	180Ω , $1/10W$

#≜REF No.	PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME, DE	SCRIPTION
R207	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R264	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W
R208	QRSA08J-393YN	RESISTOR	$39k\Omega$,1/10W	R265	QRSA08J-181YN	RESISTOR	180 Ω ,1 / 10W
R209	QRSA08J-393YN	RESISTOR	$39k\Omega$,1/10W	R266	QRSA08J-181YN	RESISTOR	180 Ω ,1 / 10W
R210	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	R267	QRSA08J-680YN	RESISTOR	68Ω,1/10W
				R268	QRSA08J-680YN	RESISTOR	68Ω,1/10W
R211	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R269	QRSA08J-123YN	RESISTOR	12kΩ,1/10W
R212	NRVA62D-102N	RESISTOR	1kΩ,1/16W	R270	QRSA08J-182YN	RESISTOR	1.8 k Ω , $1/10$ W
R213	NRVA62D-222N	RESISTOR	2.2kΩ,1/16W	D071	ODCAGO LIEGVAL	DECICTOR	35 O 1 /10M
R214	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R271	QRSA08J-750YN QRSA08J-471YN	RESISTOR	75Ω,1/10W
R215	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R272		RESISTOR	470 Ω ,1 / 10W 10kΩ ,1 / 10W
R216	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R273	QRSA08J-103YN	RESISTOR	
R217	QRSA08J-391YN	RESISTOR	390Ω,1/10W	R274	QRSA08J-222YN	RESISTOR RESISTOR	2.2kΩ,1/10W 10kΩ,1/10W
R218	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R276	QRSA08J-103YN QRSA08J-103YN	RESISTOR	
R219	QRSA08J-222YN	RESISTOR	2.2kΩ ,1 / 10W	R277 R278		RESISTOR	10kΩ,1/10W 10kΩ,1/10W
R220	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R279	QRSA08J-103YN QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
D004	OD0400 4F3VN	DECICTOR	15k0 1 /10M	R280		RESISTOR	150 Ω ,1 / 10W
R221	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	HZOU	QRSA08J-151YN	RESISTOR	13077'1\ 1044
R222	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	D201	ODCARO LIGIVAL	RESISTOR, BR-S800	100 0 1 /1014
R223	NRVA62D-123N	RESISTOR	12kΩ ,1/16W 2.2kΩ ,1/10W	R281 R282	QRSA08J-181YN QRSA08J-333YN	RESISTOR, BR-S800	180 Ω ,1 / 10W 33kΩ ,1 / 10W
R224	QRSA08J-222YN	RESISTOR	180 Ω ,1 / 10W	R283	QRSA08J-273YN	RESISTOR, BR-S800	27kΩ,1/10W
R225	QRSA08J-181YN	RESISTOR	180 Ω ,1 / 10W	R284	QRSA08J-152YN	RESISTOR, BR-S800	$1.5k\Omega$, $1/10W$
R226	QRSA08J-181YN	RESISTOR	68 Ω ,1 / 10W	R285	QRSA08J-391YN	RESISTOR, BR-S800	390 Ω ,1 / 10W
R227	QRSA08J-680YN	RESISTOR	68 Ω ,1 / 10W	R286	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$,1/10W
R228	QRSA08J-680YN	RESISTOR	$12k\Omega$, $1/10W$	R287	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$
R229	QRSA08J-123YN	RESISTOR RESISTOR	2.2kΩ,1/10W	R288	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$
R230	QRSA08J-222YN	NESISTON	2.2K32,1/ 10 W	R289	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
D031	QRSA08J-750YN	RESISTOR	75Ω,1/10W	R290	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
R231	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	11230	Q10A003-0101	NEOIO I O N	0 52 ,1 / 10 44
R232	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R291	QRSA08J-122YN	RESISTOR	1.2kΩ ,1 / 10W
R233 R234	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R292	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R235	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R293	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R236	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	R294	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R237	NRVA62D-391N	CMF RESISTOR	390 Ω ,1 / 16W	R295	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R238	NRVA62D-391N	CMF RESISTOR	390 Ω ,1 / 16W	R296	QRSA08J-821YN	RESISTOR	820 Ω ,1 / 10W
R239	NRVA62D-471N	RESISTOR	470 Ω ,1 / 16W	11250	CHORIOGO VETTI	TILDIOTOTT	020 62,717 1011
R240	NRVA62D-122N	RESISTOR	1.2kΩ,1/16W	R302	QRSA08J-103YN	RESISTOR	10kΩ.1/10W
11240	INITACE ISSUE	112210101	11=1125 /17 1000	R303	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R241	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W	R304	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R242	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W	R305	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R243	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R306	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R244	QRSA08J-750YN	RESISTOR	75Ω,1/10W	R307	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R245	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$	R308	QRSA08J-560YN	RESISTOR, BR-S800	56Ω,1/10W
R246	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W	R309	QRSA08J-560YN	RESISTOR, BR-S800	56 Ω ,1 / 10W
R247	NRVA62D-102N	RESISTOR	$1k\Omega$,1/16W	R310	QRSA08J-222YN	RESISTOR, BR-S800	2.2kΩ,1/10W
R248	NRVA62D-471N	RESISTOR	470Ω,1/16W				
R249	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R311	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R250	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R312	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
				R313	QRSA08J-563YN	RESISTOR	56kΩ,1/10W
R251	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10W$	R314	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W
R252	NRVA62 D-561 N	RESISTOR	560 Ω,1/16W	R315	QRSA08J-182YN	RESISTOR	1.8kΩ ,1 / 10W
R253	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W	R316	QRSA08J-681YN	RESISTOR	680Ω,1/10W
R254	NRVA62D-272N	RESISTOR	$2.7k\Omega$, $1/16W$	R317	QRSA08J-271YN	RESISTOR	270Ω,1/10W
R255	QRSA08J-153YN	RESISTOR	$15k\Omega$, $1/10W$	R318	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R256	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R319	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R257	QRSA08J-391YN	RESISTOR	390 Ω ,1/10W	R320	QRSA08J-822YN	RESISTOR	8.2kΩ ,1/10W
R258	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W				
R259	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R321	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R260	QRSA08J-222YN	RESISTOR	2.2 k Ω , $1/10$ W	R322	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W
		D POI	481 0 4 /44111	R325	QRSA08J-393YN	RESISTOR, BR-S800	39kΩ,1/10W
R261	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R325	QRSA08J-473YN	RESISTOR, BR-S500	47kΩ,1/10W
R262	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R326	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W
R263	NRVA62D-123N	RESISTOR	$12k\Omega$, $1/16W$	R327	QRSA08J-223YN	RESISTOR	$22k\Omega$,1/10W

#≜REF No.	PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME,	DESCRIPTION
R328	QRSA08J-273 YN	RESISTOR	27kΩ,1/10W	R389	QRSA08J-823YN	RESISTOR	82kΩ,1/10W
R329	QRSA08J-272YN	RESISTOR	2.7 k Ω , $1/10$ W	R390	QRSA08J-105YN	RESISTOR	$1M\Omega$,1/10W
R330	QRSA08J-562YN	RESISTOR	$5.6k\Omega$, $1/10W$				
			0 4 44411	R391	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10W
R331	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R392	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10W
R332	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R393	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R333	QRSA08J-332YN	RESISTOR	3.3kΩ ,1/10W	R394	QRSA08J-105YN	RESISTOR	1MΩ,1/10W
R334	NRVA62D-681N	RESISTOR	680 Ω ,1/16W	R395	QRSA08J-561YN	RESISTOR	560 Ω ,1 /10W
R335	NRVA62D-271N	RESISTOR	270Ω,1/16W	R396 R397	QRSA08J-471YN QRSA08J-471YN	RESISTOR RESISTOR	470 Ω ,1 / 10W 470 Ω ,1 / 10W
R336	QRSA08J-471YN	RESISTOR	470Ω,1/10W 470Ω,1/10W	R398	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R337	QRSA08J-471YN	RESISTOR	200 Ω ,1 / 10W	R399	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R338	QRSA08J-201YN	RESISTOR RESISTOR	$3.3k\Omega$, $1/10W$	R400	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R339	QRSA08J-332YN	RESISTOR	200 Ω ,1 / 10W	1,400	Q110A003-222 1 14	TLOIDTOTT	2.28 00 ,1 / 1000
R340	QRSA08J-201YN	NESISTON	200 22 ,1/ 1011	R401	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R341	QRSA08J-750YN	RESISTOR	75Ω,1/10W	R402	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R342	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R403	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R343	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R404	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R344	NRVA62D-152N	RESISTOR	1.5kΩ ,1/16W	R405	QRSA08J-331YN	RESISTOR	330 Ω ,1/10W
R345	NRVA62D-102N	RESISTOR	$1k\Omega$, $1/16W$	R406	QRSA08J-683YN	RESISTOR	68kΩ,1/10W
R346	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W	R407	QRSA08J-823YN	RESISTOR	82kΩ,1/10W
R347	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R408	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R348	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W	R409	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
R349	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R410	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R350	QRSA08J-201YN	RESISTOR	200 Ω ,1 / 10W				
				R411	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R351	QRSA08J-201YN	RESISTOR	200Ω ,1/10W	R413	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W
R352	QRSA08J-393YN	RESISTOR	$39k\Omega$,1/10W	R414	QRSA08J-331YN	RESISTOR	330 Ω,1/10W
R353	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W	R416	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R354	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R417	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R355	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W	R418	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R357	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/10W	R419	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R358	QRSA08J-393YN	RESISTOR	39kΩ ,1 / 10W	R420	QRSA08J-683YN	RESISTOR	68kΩ,1/10W
R359	QRSA08J-223YN	RESISTOR	22kΩ ,1 / 10W 2.2kΩ ,1 / 10W	R421	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R360	QRSA08J-222YN	RESISTOR	2.2K34,1/ 10VV	R421	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
D264	ODCA00 1 221 VN	RESISTOR	330Ω,1/10W	R423	QRSA08J-124YN	RESISTOR	120kΩ,1/10W
R361 R362	QRSA08J-331YN QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10W	R424	QRSA08J-753YN	RESISTOR	75kΩ,1/10W
R363	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W	R425	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R364	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W	R426	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R365	NRVA62D-751N	RESISTOR	750Ω,1/16W	R427	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R366	NRVA62D-102N	RESISTOR	1kΩ,1/16W	R428	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R367	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R429	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R368	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	R430	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R369	QRSA08J-331YN	RESISTOR	330 Ω,1/10W				
R370	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$	R431	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
				R432	QRSA08J-103YN	RESISTOR	$10k\Omega$, $1/10W$
· R371	ORSA08J-223YN	RESISTOR	22kΩ,1/10W	R433	QRSA08J-223YN	RESISTOR	$22k\Omega$, $1/10W$
R372	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	R434	QRSA08J-821YN	RESISTOR	820 Ω ,1/10W
R373	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R435	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R374	NRVA62D-561N	RESISTOR	560 Ω,1/16W	R436	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
R375	NRVA62D-391N	CMF RESISTOR		R437	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R376	NRVA62D-471N	RESISTOR	470Ω,1/16W	R438	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R377	NRVA62D-471N	RESISTOR	470Ω,1/16W	R439	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R378	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	R440	QRSA08J-102YN	RESISTOR, BR-S	$1k\Omega,1/10W$
R379	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	D444	ODCAGO L 400VIII	DECICTOR	11.60 1 /1014
R380	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W	R441	QRSA08J-102YN	RESISTOR	1kΩ ,1 ∕ 10W 2.2kΩ ,1 ∕ 16W
D264	ODO444 1 4741/11	DECICTOR	4 ELO 4 /46141	R442 R443	NRVA62D-222N	RESISTOR	2.2k\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
R381	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W 680Ω,1/10W	R444	NRVA62D-222N NRVA62D-751N	RESISTOR RESISTOR	750 \(\Omega\), 1 \/ 16 W
R384	QRSA08J-681YN	RESISTOR RESISTOR	$1k\Omega$, $1/10W$	R444	NRVA62D-153N	RESISTOR	15kΩ,1/16W
R385 R387	QRSA08J-102YN	RESISTOR	1.5kΩ,1/10W	R446	QRSA08J-821YN	RESISTOR	820 \Q .1 / 10 W
R388	QRSA08J-152YN QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$		QRSA08J-102YN	RESISTOR	1k\(\Omega\),1/10W
L/300	UNDAUDJ-102 YN	UMBION	1 K 24 , 1 / 1 U W	1177/	2110-100-102 1 N	TILOUT OIT	INDENTITION OF THE

#≜REF No.	PART No.	PART NAME, DES	CRIPTION	#≜REF No.	PART No.	PART NAME, DESC	CRIPTION
R448	QRSA08J-333YN	RESISTOR	33kΩ ,1/10W	C27	QCYA1EK-103	CAPACITOR, BR-S800	0.01 μ F,25V
R449	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	C28	NEH11CM-476NP	E CAPACITOR, BR-S80	
R450	QRSA08J-122YN	RESISTOR	1.2 k Ω , $1/10$ W	C29 C30	OCTA1CH-390 NEH51AM-107P	CAPACITOR, BR-S800 E CAPACITOR, BR-S80	39pF,16V
D 424	ODOLOG LEGIVAL	RESISTOR	680 Ω ,1 / 10W	030	INC. IS I AIVI-1071	E OA! AO! O!!, D!! O!!	,ο 100 μ 1 ,10 τ
R451	QRSA08J-681YN	RESISTOR	2.2kΩ,1/10W	C32	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
R452	QRSA08J-222YN QRSA08J-273YN	RESISTOR	27kΩ,1/10W	C33	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
R453	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W	C34	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
R456	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	C35	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
R457	QRSA08J-121YN	RESISTOR, BR-S500	120Ω,1/10W	C36	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R458 R459	NRVA62D-102N	RESISTOR, BR-S500	1kΩ,1/16W	C37	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R460	NRVA62D-751N	RESISTOR, BR-S500	750Ω,1/16W	C38	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
17400	MINAMOSSIALIA	1120101 0117 211 0000	,	C39	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
R461	NRVA62D-391N	RESISTOR, BR-S500	390 Ω ,1/16W	C40	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
R462	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W				
R464	QRSA08J-0R0Y	RESISTOR, BR-S500	0Ω.1/10W	C41	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R465	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C42	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
R466	QRSA08J-681YN	RESISTOR	680Ω,1/10W	C43	QCYA1EK-104	CAPACITOR	0.1μ F,25V
R467	QRSA08J-391YN	RESISTOR	390 Ω,1/10W	C44	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
R468	QRSA08J-155YN	RESISTOR	$1.5M\Omega$, $1/10W$	C45	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
R469	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	C46	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R470	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	C47	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
				C48	QCTA1CH-100	CAPACITOR	10pF,16V
R471	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C49	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R472	QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	C50	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R473	QRSA08J-471YN	RESISTOR	470Ω,1/10W				
R474	QRSA08J-561YN	RESISTOR	560Ω ,1/10W	C51	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R475	QRSA08J-473YN	RESISTOR	$47k\Omega$,1/10W	C52	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R476	QRSA08J-103YN	RESISTOR	$10k\Omega$, $1/10W$	C53	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
R477	QRSA08J-152YN	RESISTOR	1.5 k Ω , 1 / 10 W	C54	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
				C55	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
		÷	004 (014)	C56	NEH51AM-107P	E CAPACITOR	100 μ F,10V
B3	QRD161J-0R0	RESISTOR	0Ω , $1/6W$	C57	NEH51AM-107P	E CAPACITOR	100 μ F,10V
				C59	QCYA1EK-103	CAPACITOR	0.01 μ F,25V 47 μ F,16V
(2)	001404 514400	CARACITOR	0.04 = 25\/	C60	NEH11CM-476NP	E CAPACITOR	4/ µ F,10V
C1	OCYA1EK-103	CAPACITOR E CAPACITOR	0.01 μ F,25V 47 μ F,16V	C61	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C2	NEH11CM-476NP	CAPACITOR	0.01 μ F,25V	C62	QCYA1EK-223	CAPACITOR	0.022 μ F,25V
C3	QCYA1EK-103	E CAPACITOR, BR-5		C63	QCYA1EK-223	CAPACITOR	0.022 μ F,25V
C4	NEH51 AM-107P	E CAPACITOR, BR-		C64	QCTA1CH-331	CAPACITOR	330pF,16V
C5	NEH51 AM-107P NEH11 CM-226 NP				QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C6	NEH11CM-226NP				NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C 7 C 8	QCYA1EK-103	CAPACITOR, BR-S80		C67	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C3	QCYA1HK-332	CAPACITOR, BR-S80		C68	QCYA1EK-223	CAPACITOR, BR-S800	
C10	QCYA1EK-103	CAPACITOR, BR-S80		C69	NEH11EM-475NZ	E CAPACITOR	4.7 μ F,25V
Civ	COTATER TOO	1		C70	QCYA1EK-223	CAPACITOR, BR-S800	
C11	QCYA1EK-473	CAPACITOR, BR-S80	0 0.047 μ F,25V				
C12	NEH11EM-475NZ	E CAPACITOR, BR-S	800 4.7 μ F,25V	C71	NEH11EM-475NZ	E CAPACITOR, BR-S81	00 4.7 μ F,25V
C13	NEH11EM-475NZ		800 4.7 μ F,25V	C72	NEH11EM-475NZ	E CAPACITOR	4.7 μ F,25V
C14	QCYA1EK-103	CAPACITOR, BR-S80	0 0.01 μ F,25V	C73	NEH11EM-475NZ	E CAPACITOR, BR-S80	
C15	NEN10JM-226NP	E CAPACITOR	22 μ F,6.3V	C74	QCYA1EK-103	CAPACITOR	0.01μ F,25V
C 16	QCTA1CH-390	CAPACITOR	39pF,16V	C75	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C 17	QCTA1CH-121	CAPACITOR	120pF,16V	C76	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C 18	NEN11HM-105NZ	E CAPACITOR	1 μ F,50V	C77	NEN11EM-475NZ	NP E CAPACITOR	4.7 μ F,25V
C19	QCYA1EK-103	CAPACITOR, BR-S80		C78	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C 20	NEH11CM-476NP	E CAPACITOR, BR-S	800 47 μ F,16V	C79	NEH11EM-475NZ	E CAPACITOR, BR-S80	
	· M			C80	NEH51AM-107P	E CAPACITOR	100μ F, $10V$
C 21	OCYA1EK-103	CAPACITOR, BR-S80		604	NEUE ALL CONT	F 04 B4 0/705	400 - 401/
C 22	QCYA1EK-223	CAPACITOR, BR-S80		C81	NEH51AM-107P	E CAPACITOR	100 μ F,10V
C 23	QCTA1CH-100	CAPACITOR, BR-S80			NEH51AM-107P	E CAPACITOR	100 μ F,10V 10pF,16V
C24	QCTA1CH-330	CAPACITOR, BR-S80		C83	QCTA1CH-100	CAPACITOR E CAPACITOR	1υρΕ,10V 1 μ Ε,50V
C25	QCYA1EK-103	CAPACITOR, BR-S80		C84 C85	NEH11HM-105NZ NEH11CM-476NP	E CAPACITOR E CAPACITOR	47 μ F,16V
C 26	NEH11CM-476NP	E CAPACITOR, BR-S	ουυ 4/μr,10V	L C0 5	HEITH I CIVITY / ONE	LUARACITUR	71 H F 7104

#≜REF No.	PART No.	PART NAME, D	ESCRIPTION	#≜REF No	PART No.	PART NAME,	DESCRIPTION
C86	NEH51AM-227W	E CAPACITOR	220 μ F,10V	C143	QCYA1HK-153	CAPACITOR	0.015 μ F,50V
C87	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C144	NEH11HM-474NZ	E CAPACITOR	0.47 μ F,50V
C88	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	C145	NEH11HM-225NZ	E CAPACITOR	2.2 μ F,50V
C89	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C146	QCTA1CH-471	CAPACITOR	470pF,16V
C90	QCYA1EK-223	CAPACITOR	0.022 μ F,25V	C149	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
				C150	NAT3112-400 RZ	CHIP TRIMER	
C91	QCYA1EK-223	CAPACITOR, BR-S	800 0.022 μ F,25V				
C92	QCYA1EK-223	CAPACITOR	0.022 μ F,25V	C151	QCTA1CH-390	CAPACITOR	39pF,16V
C93	QCYA1EK-223	CAPACITOR	0.022μ F,25V	C152	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V
C94	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C153	QCYA1 EK-223	CAPACITOR	0.022μ F,25V
C95	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	C154	NEH11CM-106N	E CAPACITOR	10 μ F,16V
C96	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C155	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
C97	NEH51AM-107P	E CAPACITOR	100 μ F,10V	C156	QCTA1CH-330	CAPACITOR	33pF,16V
C98	NEH51AM-107P	E CAPACITOR	100 μ F,10V	C157	OCYA1EK-103	CAPACITOR	0.01 μ F,25V
C99	NEH51AM-107P	E CAPACITOR	100 μ F,10V	C158	NEH11EM-475NZ	E CAPACITOR	4. 7 μ F,25 V
C100	QCTA1CH-150	CAPACITOR	15pF,16V	C159	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
				C160	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C101	NEH11HM-105NZ	E CAPACITOR	1 μ F,50V				
C102	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	C161	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C103	NEH51AM-227W	E CAPACITOR	220 μ F,10V	C162	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C104	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C163	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C105	NEH51 AM-227W	E CAPACITOR	220 μ F,10V	C164	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C106	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C165	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C107	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C166	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C108	NEH11HM-105NZ		1 μ F,50V	C167	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C109	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C168	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C110	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C169	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
				C170	QCYA1 EK-104	CAPACITOR	0.1 μ F,25 V
C111	QCYA1EK-103	CAPACITOR	0.01 μ F,25V				
C112	NEH11HM-224NZ		0.22 μ F,50V	C171	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C113	QCYA1EK-223	CAPACITOR, BR-S		C172	QCTA1CH-100	CAPACITOR	10pF,16V
C114	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C173	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
C115	QCTA1CH-220	CAPACITOR, BR-S	•	C174	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C116	NAT3112-400RZ	CHIP TRIMER, BE	· ·	C175	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V
C117	QCTA1CH-120	CAPACITOR, BR-S		C176	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
C118	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C177	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C119	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C178	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C120	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C179	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
		048401708	0.04 5.05\/	C180	OCYA1EK-103	CAPACITOR	0.01 μ F,25V
C121	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	24.00	001/44 =1/ 444		
C122	OCYA1EK-103	CAPACITOR	0.01 μ F,25V	C183	QCYA1EK-223	CAPACITOR	0.0 22 μ F,25V
C123	NEH11CM-106N	E CAPACITOR	10 μ F,16V	C184	QCYA1EK-223	CAPACITOR	0.022 μ F,25V
C124	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C185	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C125	NEH11CM-106N	E CAPACITOR	10 μ F,16V	C186	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C126	QCYA1EK-103	CAPACITOR, BR-S		C187	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V
C127	OCYA1EK-103	CAPACITOR	0.01 μ F,25V	C188	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C128	NEH11HM-105NZ	E CAPACITOR	1 μ F,50V	C189	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C129	NEH11HM-105NZ	E CAPACITOR	1 μ F,50V	C190	NEH11CM-106N	E CAPACITOR	10 μ F,16V
C130	NEH11CM-106N	E CAPACITOR	10 μ F,16V	0101	NEUGAONA ABON	F AARAAITAR	40 5404
0104	NEU 144 ON 4 40CM	E CARACITOR DE	2000 40 E46V	C191	NEH11CM-106N	E CAPACITOR	10 μ F,16V
C131	NEH11CM-106N	E CAPACITOR, BE		C192	NEH11CM-106N	E CAPACITOR	10 μ F,16V
C132	OCYA1EK-103	CAPACITOR	0.01 μ F,25V	C193	QCTA1CH-121	CAPACITOR	120pF,16V
C133	QCTA1CH-101	CAPACITOR	100pF,16V	C194	QCTA1CH-391	CAPACITOR	390pF,16V
C134	NEH11HM-104NZ	E CAPACITOR	0.1 μ F,50V	C195	NEH51AM-107P	E CAPACITOR	1 0 0 μ F,10V
C135 C136	QCTA1CH-5R0	CAPACITOR	5pF,16V	C196	QCTA1CH-121	CAPACITOR	120pF,16V
C136	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C197	QCTA1CH-391	CAPACITOR	390pF,16V
C137	NAT3112-400RZ	CHIP TRIMER	22=5 161/	C198	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C138	QCTA1CH-330	CAPACITOR CAPACITOR	33pF,16V 0.01 μ F,25V	C199 C200	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C140	QCYA1EK-103	CAPACITOR	120pF,16V	C200	QCYA1 EK-103	CAPACITOR	0. 01 μ F,25∨
0170	QCTA1CH-121	CAPACITOR	120hr,104	C201	OCVATEV 102	CARACITOR	0 (11 E 15)
C141	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C201	QCYA1 EK-103 QCYA1 EK-103	CAPACITOR	0.Ø1 μ F,25V
C142	NEH11HM-105NZ	E CAPACITOR	1 μ F,50V	C202	QCYA1EK-103	CAPACITOR	0. 01 μ F,25V 0. 01 μ F,25V
V176	MELLI I LUMI-LOSIMA	- VALACITOR	1 μ F,00 V	0203	COLMIEV-103	CAPACITOR	υ, ω ιμ Γ,43γ

# <u></u> AREF No.	PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME, DES	CRIPTION
C205	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C269	QCYA1EK-683	CAPACITOR	0.068 μ F,25V
C207	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C270	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C208	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V				
C209	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C271	QCTA1CH-180	CAPACITOR	18pF,16V
C210	NEH11 HM-105NZ	E CAPACITOR	1 μ F,50V	C272	QCTA1CH-560	CAPACITOR	56pF,16V
02.0				C273	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C211	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C274	QCYA1EK-104	CAPACITOR	0.1μ F,25V
C212	NEH11 CM-476 NP	E CAPACITOR	47 μ F,16V	C276	QCTA1CH-101	CAPACITOR	100pF,16V
C213	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C277	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
C216	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C278	QCTA1CH-330	CAPACITOR, BR-S800	33pF,16V
C217	NEH11 CM-476 NP	E CAPACITOR	47 μ F,16V	C279	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C218	QCYA1 EK-103	CAPACITOR	0.01 μ F,25V	C280	QCTA1CH-390	CAPACITOR	39pF,16V
C219	NEH11 HM-105NZ		1 μ F,50V				•
C219	QCYA1 HK-102	CAPACITOR	0.001 μ F,50V	C281	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
CZZU	COMMINGIOL	יאון אטווטוו	0,001,21,001	C282	NEH11CM-106N	E CAPACITOR	10 μ F,16V
C 224	NEH11 HM-105NZ	E CAPACITOR	1 μ F,50V	C283	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C221	QCYA1 EK-104	CAPACITOR	0.1 μ F,25V	C284	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C222	QCYA1 EK-104	CAPACITOR	0.1 μ F,25V	C285	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
C223			1 μ F,50V	C287	QCYA1HK-152	CAPACITOR	0.0015 μ F,50V
C224	NEH11 HM-105NZ		1 μ F,50V	C288	QCYA1EK-103	M CAPACITOR	0.01 μ F,25V
C225	NEH11 HM-105NZ		0.001 μ F,50V	C289	QCYA1EK-103	M CAPACITOR	0.01 μ F,25V
C226	QCYA1HK-102	CAPACITOR	0.001 μ F,25V	0203	CO ALLICIOS	M OAI AOITON	0.01 μ 1 ,20 τ
C227	QCYA1EK-104	CAPACITOR					
C228	NEH11 CM-106 N	E CAPACITOR		L2	PU58201-221J	COIL	220 μ Η
C229	OCYA1EK-103	CAPACITOR	0.01 μ F,25V		YU41134-221JY	COIL, BR-S800	220 μ H
		E 04.04.0IT.0.D	400 5401/	L3 L4		COIL, BR-S800	15 μ Η
C232	NEH51 AM-107P	E CAPACITOR	100 μ F,10V		PU58201-150J		47 μ H
C233	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L5	YU41134-470JY	COIL, BR-S800	220 μ H
C234	NEH51 AM-107P	E CAPACITOR		L7	YU41134-221JY	COIL	
C235	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L8	YU41134-470JY	COIL	47 μ H
C236	QCYA1 EK-683	CAPACITOR	0.068 μ F,25V	L9	YU41134-221JY	COIL	220 μ H
C237	ORSA08J-0R0Y	RESISTOR	0Ω,1/10W	L10	YU41134-470JY	COIL	$47 \mu H$
C238	OCTA1 CH-151	CAPACITOR	150pF,16V		\(\(\)	0011	47 11
C239	QCYA1EK-683	CAPACITOR	0.068 μ F,25V	L11	YU41134-470JY	COIL	47 μ Η
C240	OCYA1EK-473	CAPACITOR	0.047 μ F,25V	L12	YU41134-221JY	COIL	220 μ H
				L13	YU41134-470JY	COIL	47 μ Η
C241	OCYA1EK-473	CAPACITOR	0.047 μ F,25V		YU41134-470JY	COIL	47 μ Η
C242	OCYA1EK-473	CAPACITOR	0.047 μ F,25V		PU58201-560J	COIL	5 6 μ Η
C243	OCYA1EK-473	CAPACITOR	0.047 μ F,25V		PU58201-470J	COIL	47 μ Η
C244	OCYA1HK-273	CAPACITOR	0.027 μ F,50V	L17	PU58201-100J	COIL	10 μ H
C245	QCYA1HK-183	CAPACITOR	0.018 μ F,50V	L19	PU58201-180J	COIL	18 μ Η
C247	QCYA1EK-103	CAPACITOR	0.01 μ F,25V				
C248	NEH51 AM-107P	E CAPACITOR		L21	YU41134-221JY	COIL	220 μ H
C249	OCYA1EK-103	CAPACITOR	0.01 μ F,25V	L22	YU41134-221JY	COIL	220 μ H
C250	OCYA1EK-103	CAPACITOR	0.01 μ F,25V	L25	YU41134-221JY	COIL	220 μ H
				L26	PU58201-330J	COIL	3 3 μ Η
C251	OCTA1CH-220	CAPACITOR	22pF,16V	L27	PU58201-330J	COIL	3 3 μ Η
C252	QCTA1CH-560	CAPACITOR	56pF,16V	L28	YU41134-221JY	COIL	220 μ Η
C253	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L29	YU41134-221JY	COIL	220 μ Η
C254	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L30	YU41134-221JY	COIL	220 μ Η
C255	NEH51 AM-107P	E CAPACITOR	100 μ F,10V				
C256	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L33	YU41134-470JY	COIL, BR-S800	47 μ Η
C258	QCYA1EK-683	CAPACITOR	0.068 μ F,25V	L33	YU41134-221JY	COIL, BR-S500	220μ H
C259	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L35	PU58201-560J	COIL	5 6 μ Η
C260	NEH11HM-105NZ			L36	PU58201-220J	COIL	22 μ Η
C 200	145111111111111111111111111111111111111		.,,	L37	PU58201-560J	COIL	56 μ Η
C 261	QCYA1HK-153	CAPACITOR	0.015 μ F,50V	L38	PU58201-220J	COIL	22 μ Η
C262	OCTA1CH-471	CAPACITOR	470pF,16V	L39	PU58201-390J	COIL	39 μ H
	OCTA1CH-151	CAPACITOR	150pF,16V				•
C263	QCYA1EK-103	CAPACITOR	0.01 μ F,25V				
C264	QCYATEK-103	CAPACITOR	0.01 μ F,25V	LPF1	PELN0320	LOW PASS FILTER,	BR-S800
C265	QCYATEK-103	CAPACITOR	0.01 μ F,25V		PELN0321	LOW PASS FILTER	
C266	QCYATEK-103	CAPACITOR	0.01 μ F,25V		PELN0321	LOW PASS FILTER	
C267	QCYA1EK-103	CAPACITOR	0.01 μ F,25V		PGZ01328-R	LOW PASS FILTER	,
C 268	GO I MI EN-100	VAI AUTUN	ψ.σ.ι μ. ι ,2.σ.γ	1	11		

AREF I	No. PART No.	PART NAME, DESCRIPTION	#≜REF No.	PART No.	PART NAME, DESCRIPTION
LPF5	PELN0321	LOW PASS FILTER	Q2	2SC2412K(RS)	TRANSISTOR
			O3	2SA1037K(QR)	TRANSISTOR
			Q4	2SC2412K(RS)	TRANSISTOR
BPF1	PGZ01893-P	BAND PASS FILTER	Q5	2SC2412K(RS)	TRANSISTOR
BPF2	PGZ01980-R	BAND PASS FILTER	Q7	2SA1037K(QR)	TRANSISTOR
	PGZ01982-R	BAND PASS FILTER	Q8	2SC2412K(RS)	TRANSISTOR
BPF3	FG201302-N	BAND TAG TIETEN	Q9	2SC2412K(RS)	TRANSISTOR
			Q10		TRANSISTOR
X 1	PGZ02016	CRYSTAL RESONATOR	Q10	2SA1037K(QR)	INAMOSTON
^1	PG202010	ONTOTAL NESONATON	Q11	2SA1037K(QR)	TRANSISTOR
			Q12	2SC2412K(RS)	TRANSISTOR
V1	PGZ00627Z	CHIP.F.BEADS	Q13	2SC2412K(RS)	TRANSISTOR
K1	PGZ00627Z	CHIP.F.BEADS	Q14	DTC144EK	TRANSISTOR, BR-S800
K2			Q15	DTC144EK	TRANSISTOR, BR-S800
K3	PGZ00627Z	CHIP.F.BEADS			
K4	PGZ00627Z	CHIP.F.BEADS	Q16	2SC2412K(RS)	TRANSISTOR, BR-S800
K5	PGZ00627Z	CHIP.F.BEADS	Q17	2SA1037K(QR)	TRANSISTOR, BR-S800
K6	PGZ00627Z	CHIP.F.BEADS	Q18	2SC2412K(RS)	TRANSISTOR, BR-S800
K7	PGZ00627Z	CHIP.F.BEADS	Q19	2SC2412K(RS)	TRANSISTOR
K8	PGZ00627Z	CHIP.F.BEADS	Q20	2SA1037K(QR)	TRANSISTOR
K9	PGZ00627Z	CHIP.F.BEADS			1
K10	PGZ00627Z	CHIP.F.BEADS	Q21	2SC2412K(RS)	TRANSISTOR
KIU	CLOULT		Q22	2SA1037K(QR)	TRANSISTOR
			Q23	DTA124EK	TRANSISTOR
-110		THERMISTOR	Q24	DTC144EK	TRANSISTOR
TH2	ERT-D2FGL102S	THERMISTOR			
			Q25	2SC2412K(RS)	TRANSISTOR
			Q26	DTC144EK	TRANSISTOR
SPC1	PGZ01128-02	SPACER, × 2	Q27	DTC144EK	TRANSISTOR
			Q28	DTC144WK	TRANSISTOR
		•	Q30	DTC124EK	TRANSISTOR
TP1	SCV1880-001	TEST PIN, × 25			
TP2	SCV1880-001	TEST PIN, ×4(GND)	Q31	DTC124EK	TRANSISTOR
112	9041000-001	1201 1117 11 (012)	Q32	DTC124EK	TRANSISTOR
			Q33	2SC2412K(RS)	TRANSISTOR
0114	DOZ04003 44	MALE CONNECTOR	Q34	DTC144EK	TRANSISTOR
CN1	PGZ01937-44	MALE CONNECTOR			
CN2	PGZ01937-44	MALE CONNECTOR	Q35	2SC2412K(RS)	TRANSISTOR, BR-S800
CN3	PGZ01756-11	CONNECTOR	Q36	2SA1037K(QR)	TRANSISTOR, BR-S800
CN4	PGZ01756-10	CONNECTOR	Q37	2SC2412K(RS)	TRANSISTOR, BR-S800
			Q38	2SC2412K(RS)	TRANSISTOR, BR-5800
			Q39	2SC2412K(RS)	TRANSISTOR, BR-S800
			Q40	2SA1037K(QR)	TRANSISTOR, BR-S800
VIDI	EO-2 BOARD AS	SEMBLY <11>	011	8000448K(PA)	77 4 MOIOTO P. D. 0000
			Q41	2SC2412K(RS)	TRANSISTOR, BR-S800
			Q42	2SC2412K(RS)	TRANSISTOR, BR-S800
			Q44	2SC2412K(RS)	TRANSISTOR, BR-S800
PWB/	PRK20263A-02	VIDEO2 BOARD ASSY, BR-S800	Q45	2SA1037K(QR)	TRANSISTOR, BR-S800
PWB/	PRK20263B-02	VIDEO2 BOARD ASSY, BR-S500	Q46	2SC2412K(RS)	TRANSISTOR, BR-S800
	• • • • • • • • • • • • • • • • • • • •		Q47	DTC144EK	TRANSISTOR, BR-S800
			Q48	2SC2412K(RS)	TRANSISTOR
101	VOORTENID VE	IC	Q49	DTC144EK	TRANSISTOR
IC1	VC2076MP-XE	IC			
IC2	CXL5505M	F IC(DRY)	Q50	DTC144EK	TRANSISTOR
IC3	JCP0032-HT	IC			
IC4	TC7S04F	IC	Q51	2SA1037K(QR)	TRANSISTOR
IC5	TC7S04F	IC	Q52	2SC2412K(RS)	TRANSISTOR
IC6	TC74HC4538AF	IC	Q53	2SC2412K(RS)	TRANSISTOR
IC7	TC7S04F	IC	Q54	2SC2412K(RS)	TRANSISTOR
IC8	MM1111XF	IC	Q55	2SC2412K(RS)	TRANSISTOR
100	IAIIAIIIIVL	10	Q56	DTC144EK	TRANSISTOR
IC13	T034110400465	10			
0.713	TC74HC4094AF	IC	Q57	DTC144EK	TRANSISTOR
	TC7S04F	IC	Q58	2SC2412K(RS)	TRANSISTOR
IC14	B 4 B 4 4 4 4 4 V F	IC, BR-S800	Q59	2SA1037K(QR)	TRANSISTOR
	MM1111XF				
IC14	MIMITIAF		Q60	2SA1037K(QR)	TRANSISTOR
IC14	2SC2412K(RS)	TRANSISTOR	Q60 Q61	2SA1037K(QR) 2SC2412K(RS)	TRANSISTOR

REF No	o. PART No.	PART NAME, DESCRIPTION	#≜REF No.	PART No.	PART NAME, DES	CRIPTION
Q63	2SC2412K(RS)	TRANSISTOR	D22	DAN202K	DIODE	
Q64	DTC144EK	TRANSISTOR	D23	DAN202K	DIODE	
Q65	2SC2412K(RS)	TRANSISTOR	D25	1SS99	DIODE	
Q66	2SA1037K(QR)	TRANSISTOR	D26	1SS99	DIODE	
Q67	DTC144EK	TRANSISTOR	D27	1SS99	DIODE	
Q68	2SC2412K(RS)	TRANSISTOR	D28	DAN202K	DIODE	
Q69	2SC2412K(RS)	TRANSISTOR	D29	DAN202K	DIODE	
Q70	2SC2412K(RS)	TRANSISTOR	D30	DAN202K	DIODE, BR-S800	
Q71	2SC2412K(RS)	TRANSISTOR	D32	DAN202K	DIODE	
Q72	2SA1037K(QR)	TRANSISTOR				
Q73	2SA1037K(QR)	TRANSISTOR, BR-\$800				
Q74	2SC2412K(RS)	TRANSISTOR	R1	NVP1415-201N	V RESISTOR, BR-S80	
Q75	2SA1037K(QR)	TRANSISTOR	R2	NVP1415-102N	V RESISTOR, BR-S80	
Q76	2SC2412K(RS)	TRANSISTOR	R3	NVP1415-501N	V RESISTOR	500Ω,1/
Q77	2SC2412K(RS)	TRANSISTOR	R4	NVP1415-203N	V RESISTOR, BR-S80	0 20kΩ,1/
C	200211211(1117)		R5	NVP1415-502N	V RESISTOR, BR-S80	0 5kΩ,1/
Q81	DTC144EK	TRANSISTOR	R6	NVP1415-502N	V RESISTOR, BR-S80	0 5kΩ,1/
Q82	2SC2412K(RS)	TRANSISTOR	R7	NVP1415-103N	V RESISTOR, BR-S80	0 10kΩ,1/
O83	2SC2412K(RS)	TRANSISTOR	R8	NVP1415-103N	V RESISTOR, BR-S80	
C84	2SC2412K(RS)	TRANSISTOR	R9	NVP1415-202N	V RESISTOR, BR-S80	
Q85	2SA1037K(QR)	TRANSISTOR	R10	NVP1416-203N	V RESISTOR	20kΩ,1/
O86	2SC2412K(RS)	TRANSISTOR				
	2SC2412K(RS)	TRANSISTOR	R11	NVP1416-502N	V RESISTOR	5kΩ ,1/
Q87	2SA1037K(QR)	TRANSISTOR	R12	NVP1415-501N	V RESISTOR, BR-S80	
O88	2SC2412K(RS)	TRANSISTOR	R13	NVP1415-501N	V RESISTOR, BR-S80	
Q89		TRANSISTOR	R14	NVP1415-501N	V RESISTOR, BR-S80	
Q90	2SC2412K(RS)	IRANSISTOR	R15	NVP1415-501N	V RESISTOR, BR-S80	
	201107V(OD)	TDANGETOD	R16	NVP1416-502N	V RESISTOR	5kΩ,1/
Q92	2SA1037K(QR)	TRANSISTOR	R17	NVP1416-502N	V RESISTOR	5kΩ,1/
Q93	2SC2412K(RS)	TRANSISTOR		NVP1416-202N	V RESISTOR	2kΩ,1/
Q94	2SA1037K(QR)	TRANSISTOR	R18		V RESISTOR	$2k\Omega$,1/
Q95	2SC2412K(RS)	TRANSISTOR	R19	NVP1416-202N	V RESISTOR	2kΩ,1/
Q96	2SC2412K(RS)	TRANSISTOR	R20	NVP1415-202N	V NESISTON	ZK \$4 ,1 /
Q 97	2SC2412K(RS)	TRANSISTOR	204	NIV/D4 44 C 4 C 2 NI	V DECISION	101-0 1
Q 98	2SC2412K(RS)	TRANSISTOR	R21	NVP1416-103N	V RESISTOR	10kΩ ,1/
Q99	2SC2412K(RS)	TRANSISTOR				**** 0 4 /4
Q100	2SC2412K(RS)	TRANSISTOR	R101	QRSA08J-223YN	RESISTOR	22kΩ,1/1
			R102	QRSA08J-153YN	RESISTOR	$15k\Omega$,1/1
Q101	2SC2412K(RS)	TRANSISTOR	R103	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/1
Q102	2SC2412K(RS)	TRANSISTOR	R104	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/1$
Q103	2SC2412K(RS)	TRANSISTOR, BR-S800	R105	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/1
Q104	2SC2412K(RS)	TRANSISTOR	R106	QRSA08J-331YN	RESISTOR	330 Ω ,1/1
Q105	2SC2412K(RS)	TRANSISTOR, BR-S800	R107	QRSA08J-101YN	RESISTOR	100Ω,1/1
			R108	QRSA08J-182YN	RESISTOR	$1.8k\Omega$, $1/1$
			R109	QRSA08J-102YN	RESISTOR	$1k\Omega .1/1$
D1	DAN202K	DIODE, BR-S800	R110	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/1$
D 3	DAN202K	DIODE				
D4	DAN202K	DIODE	R111	QRSA08J-183YN	RESISTOR	$18k\Omega$, $1/1$
D5	DAN202K	DIODE	R112	QRSA08J-103YN	RESISTOR	10kΩ,1/1
D6	DAN202K	DIODE, BR-S800	R113	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/1$
D 7	DAN202K	DIODE	R114	NRVA62D-911N	RESISTOR	910Ω,1/1
D8	DAN202K	DIODE	R117	QRSA08J-471YN	RESISTOR	470 Ω ,1/1
			R118	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/1$
D 11	1SS99	DIODE, BR-S800	R119	QRSA08J-0R0Y	RESISTOR	0Ω,1/1
D12	1SS99	DIODE, BR-S800				
	1SS99	DIODE, BR-S800	R121	QRSA08J-391YN	RESISTOR	390 Ω ,1/1
D13	1SS99	DIODE, BR-S800	R122	QRSA08J-242YN	RESISTOR	2.4kΩ,1/1
D14		DIODE	R123	QRSA08J-101YN	RESISTOR, BR-S500	100Ω,1/1
D15	1SS99	DIODE	R124	QRSA08J-181YN	RESISTOR, BR-S800	180 Ω ,1 / 1
D16	1SS99		R125	NRVA62D-301N	RESISTOR, BR-S500	300 Ω ,1 / 1
D 17	DAN202K	DIODE	R126	QRSA08J-183YN	RESISTOR	18kΩ,1/1
	1SS99	DIODE	D120	71 10 V 00 0-100 1 W	TEOR OF	
D19 D20	15599	DIODE	R127	QRSA08J-103YN	RESISTOR	10kΩ,1/1

#≜REF No. P	ART No. F	PART NAME, DES	CRIPTION	#≜REF No.	PART No.	PART NAME, DE	SCRIPTION
		RESISTOR	1kΩ,1/10W	R186	QRSA08J-563YN	RESISTOR	56kΩ,1/10W
•••		RESISTOR	10kΩ,1/10W	R187	QRSA08J-563YN	RESISTOR	56kΩ,1/10W
R130 QF	NOMUOD-100 114		TORISE /17 TOTAL	R188	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W
D121 O	RSA08J-392 YN	RESISTOR	3.9kΩ ,1 / 10W	R189	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
		RESISTOR	1kΩ,1/10W	R190	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W
		RESISTOR	1.2kΩ ,1/10W	111.00	G11071000 102111	7120101 011	1101112 /17 1011
	RSA08J-102 YN	RESISTOR	1kΩ,1/10W	R191	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W
• • • • • • • • • • • • • • • • • • • •	RSA08J-561 YN	RESISTOR	560 Ω ,1 / 10W	R192	NRVA62D-152N	RESISTOR	1.5kΩ,1/16W
• • •	RSA08J-561 YN	RESISTOR, BR-S500	560 Ω ,1 / 10W	R193	NRVA62D-152N	RESISTOR	1.5kΩ,1/16W
	RVA62D-332N	RESISTOR	3.3kΩ,1/16W	R194	NRVA62D-152N	RESISTOR	1.5kΩ,1/16W
		RESISTOR	3.3kΩ,1/16W	R196	NRVA62D-682N	RESISTOR	6.8kΩ,1/16W
****	RVA62D-332N	RESISTOR	2.7kΩ ,1/16W	R197	NRVA62D-152N	RESISTOR	1.5kΩ,1/16W
	RVA62D-272N	RESISTOR	3.3kΩ,1/16W	R198	NRVA62D-391N	CMF RESISTOR	390 Ω ,1/16W
R140 N	RVA62D-332N	NESISTON	3.3844,17 1044	R199	NRVA62D-562N	RESISTOR	5.6kΩ,1/16W
D4.44 N	DVACOD IEIN	CMF RESISTOR	150 Ω ,1 / 16W	R200	NRVA62D-273N	RESISTOR	27kΩ,1/16W
	RVA62 D-151 N	CMF RESISTOR	390 Ω ,1 / 16W	NZUU	MUAMOSTALIA	RESISTOR	27K24,1/ 1044
	RVA62D-391N	RESISTOR	1.2kΩ ,1/16W	R201	NRVA62D-183N	RESISTOR	18kΩ,1/16W
	RVA62D-122N		1.6kΩ,1/16W	R202	QRSA08J-475YN	RESISTOR	4.7MΩ,1/10W
	RVA62D-162N	CMF RESISTOR		R202	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	RVA62D-102N	RESISTOR	1kΩ,1/16W		QRSA08J-392YN	RESISTOR	
	RVA62D-152N	RESISTOR	1.5kΩ,1/16W	R204	QRSA08J-272YN	RESISTOR	3.9kΩ,1/10W
	RVA62D-102N	RESISTOR	1kΩ,1/16W	R205			2.7kΩ,1/10W
• • • • • • • • • • • • • • • • • • • •	IRVA62D-471N	RESISTOR	470 Ω ,1 / 16W	R206	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
• • • • • • • • • • • • • • • • • • • •	RSA08J-102YN	RESISTOR	1kΩ,1/10W	R207	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
R150 O	RSA08J-823YN	RESISTOR	82kΩ ,1/10W	R209	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
		DENGTOR	071-0 4 /40184	R210	QRSA08J-272YN	RESISTOR	2.7 k Ω , $1/10$ W
	RSA08J-273YN	RESISTOR	27kΩ,1/10W	D044	NDV/ACOD SOON	DECICEO DO COMO	201-0-1-(1014)
	RSA08J-123YN	RESISTOR	12kΩ ,1/10W	R211	NRVA62D-392N	RESISTOR, BR-S800	
	RSA08J-102YN	RESISTOR	1kΩ,1/10W	R212	NRVA62D-562N	RESISTOR, BR-S800	
	RSA08J-331 YN	RESISTOR	330Ω,1/10W	R213	NRVA62D-183N	RESISTOR, BR-S800	
• • • • • • • • • • • • • • • • • • • •	RSA08J-471YN	RESISTOR	470Ω,1/10W	R214	NRVA62D-822N	RESISTOR, BR-S800	
• • • • • • • • • • • • • • • • • • • •	RSA08J-153YN	RESISTOR	15kΩ,1/10W	R215	NRVA62D-392N	RESISTOR, BR-S800	
	RSA08J-223YN	RESISTOR	22kΩ,1/10W	R216	NRVA62D-822N	RESISTOR, BR-5800	
	RSA08J-152YN	RESISTOR	1.5kΩ ,1/10W	R217	NRVA62D-122N	RESISTOR, BR-S800	1.2kΩ,1/16W
• • • • • • • • • • • • • • • • • • • •	RSA08J-393YN	RESISTOR, BR-S800	39kΩ,1/10W	R218	NRVA62D-104N	RESISTOR, BR-S800	
R160 C	RSA08J-223YN	RESISTOR, BR-5800	22kΩ,1/10W	R219	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
		DECICEO DE COCO	11.0 1 /1014/	R220	QRSA08J-331YN	RESISTOR, BR-S800	330Ω , $1/10W$
	RSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	Door	ODCAGO LAGAVAL	DECICEOR	400 4 /4014
	PRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	R221	QRSA08J-181YN	RESISTOR	18) Ω,1/10W
	RSA08J-102YN	RESISTOR, BR-S800	1kΩ ,1 / 10W	R222	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	RSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	R223	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
	DRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W	R224	QRSA08J-561YN	RESISTOR, BR-S800	56) Ω,1/10W
	DRSA08J-561YN	RESISTOR, BR-S800	560 Ω ,1 / 10W	R225	QRSA08J-331YN	RESISTOR, BR-S800	331 Ω ,1 / 10W
	DRSA08J-561YN	RESISTOR, BR-S800	560 Ω ,1 / 10W	R226	QRSA08J-181YN	RESISTOR, BR-S800	18) Ω ,1/10W
	RSA08J-182YN	RESISTOR	1.8kΩ ,1 / 10W	R227	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10W
	DRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W	R228	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10W
R170 C	DRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R229	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
2424		DESIGNAD	5 9LO 1 /10W	R230	QRSA08J-151YN	RESISTOR, BR-S800	$15)\Omega$, $1/10W$
	ORSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	D221	ODCARD LIRAVAL	DESIGNAD DD 6944	1.0 1 /1004
	DRSA08J-102YN	RESISTOR	1kΩ,1/10W	R231	QRSA08J-102YN	RESISTOR, BR-S800	
	DRSA08J-393YN	RESISTOR	39kΩ ,1/10W	R232	ORSA08J-222YN	RESISTOR, BR-S800	
	PRSA08J-103YN	RESISTOR	10kΩ,1/10W	R233	QRSA08J-331YN	RESISTOR, BR-S800	331Ω,1/10W
	DRSA08J-123YN	RESISTOR, BR-S800	12kΩ,1/10W	R234	QRSA08J-221YN	RESISTOR, BR-S800	22 Q,1/10W
	DRSA08J-123YN	RESISTOR, BR-S800	12kΩ ,1/10W	R235	QRSA08J-102YN	RESISTOR, BR-S800	1t \Q ,1/10W
	DRSA08J-103YN	RESISTOR	10kΩ,1/10W	R236	ORSA08J-561YN	RESISTOR, BR-S800	
	DRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R237	QRSA08J-561YN	RESISTOR, BR-S800	56 \(\Omega\),1/10W
_	ORSA08J-393YN	RESISTOR	39kΩ,1/10W	R238	QRSA08J-181YN	RESISTOR, BR-S800	181Q ,1/10W
R180 C	DRSA08J-123YN	RESISTOR	12kΩ,1/10W	R239	QRSA08J-183YN	RESISTOR, BR-S800	18(Q),1/10W
2404		DECICTOR	E61:0 4 /4614	R240	QRSA08J-103YN	RESISTOR, BR-S800	10(Q),1/10W
	DRSA08J-563YN	RESISTOR	56kΩ,1/10W	D044	ODCACO LACOVA	DECICTOR DO CO.	4 /4014
	DRSA08J-103YN	RESISTOR	10kΩ,1/10W	R241	QRSA08J-102YN	RESISTOR, BR-S800	1 Q,1/10W
_	DRSA08J-332YN	RESISTOR	3.3kΩ ,1/10W	R242	QRSA08J-471YN	RESISTOR, BR-S800	47(\(\sigma\), 1/10W
	DRSA08J-122YN	RESISTOR	1.2kΩ,1/10W	R243	QRSA08J-102YN	RESISTOR, BR-5800	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
R185 C	DRSA08J-103YN	RESISTOR	10kΩ ,1/10W	R244	QRSA08J-331YN	RESISTOR, BR-S800	331/2,1/10W

REF No	. PART No.	PART NAME, DES	CRIPTION	#≜REF No.	PART No.	PARI NAM	E, DESCRIPTION
R245	QRSA08J-181YN	RESISTOR, BR-S800	180 Ω ,1/10W	R305	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
R246	QRSA08J-103YN	RESISTOR, BR-S800	$10k\Omega$, $1/10W$	R306	QRSA08J-471YN	RESISTOR	470Ω,1/10V
R247	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10W	R307	QRSA08J-333YN	RESISTOR	33kΩ,1/10V
R248	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$,1/10W	R308	QRSA08J-273YN	RESISTOR	27kΩ ,1/10V
R249	QRSA08J-151YN	RESISTOR, BR-S800	150 Ω ,1 / 10W	R309	QRSA08J-561YN	RESISTOR	560Ω,1/10V
R250	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$, $1/10W$	R310	QRSA08J-102YN	RESISTOR	1kΩ ,1/10V
D251	QRSA08J-222YN	RESISTOR, BR-S800	2.2kΩ ,1/10W	R311	QRSA08J-471YN	RESISTOR	470Ω,1/10V
R251	QRSA08J-271YN	RESISTOR, BR-S800	270 Ω ,1/10W	R312	QRSA08J-333YN	RESISTOR	33kΩ,1/10V
R252		RESISTOR, BR-S800	270 Ω ,1 / 10W	R313	QRSA08J-223YN	RESISTOR	22kΩ ,1/10V
R253	QRSA08J-271YN	RESISTOR, BR-S800	1kΩ,1/10W	R314	QRSA08J-102YN	RESISTOR	1kΩ,1/10V
R254	QRSA08J-102YN	RESISTOR, BR-S800	560 Ω ,1/10W	R315	QRSA08J-102YN	RESISTOR	1kΩ ,1/10V
R255	QRSA08J-561YN	RESISTOR, BR-S800	560 Ω ,1 / 10W	R316	QRSA08J-151YN	RESISTOR	150Ω,1/10V
R256	QRSA08J-561YN	RESISTOR, BR-S800	180 Ω .1 / 10 W	R317	QRSA08J-471YN	RESISTOR	470Ω,1/10V
R257	QRSA08J-181YN		18kΩ,1/10W	R318	QRSA08J-471YN	RESISTOR	470Ω,1/10V
R258	QRSA08J-183YN	RESISTOR, BR-S800	10kΩ,1/10W	R319	QRSA08J-272YN	RESISTOR	2.7kΩ ,1 / 10V
R259	ORSA08J-103YN	RESISTOR, BR-S800				RESISTOR	560 Ω ,1 / 10\
R260	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ ,1 / 10W	R320	QRSA08J-561YN	RESISTOR	50022,17 101
R261	QRSA08J-391YN	RESISTOR, BR-S800	390 Ω ,1 \angle 10 W	R321	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10\
R262	QRSA08J-393YN	RESISTOR, BR-S800	$39k\Omega$,1/10W	R322	QRSA08J-272YN	RESISTOR	$2.7k\Omega$, $1/10$
R263	QRSA08J-183YN	RESISTOR, BR-S800	18kΩ ,1/10W	R323	QRSA08J-822YN	RESISTOR	8.2kΩ ,1/10\
R264	QRSA08J-471YN	RESISTOR, BR-S800	470Ω,1/10W	R324	QRSA08J-561YN	RESISTOR	560 Ω ,1/10V
R266	QRSA08J-0R0Y	RESISTOR, BR-S800	0Ω,1/10W	R325	QRSA08J-681YN	RESISTOR	680Ω,1/10 ¹
R267	QRSA08J-391YN	RESISTOR, BR-S800	390 Ω ,1/10W	R327	QRSA08J-473YN	RESISTOR	47kΩ ,1/10
R268	QRSA08J-561YN	RESISTOR, BR-S800	560 Ω ,1/10W	R328	QRSA08J-123YN	RESISTOR	12kΩ ,1/10
R269	QRSA08J-391YN	RESISTOR, BR-S800	390 Ω ,1/10W	R329	QRSA08J-681YN	RESISTOR	680 Ω ,1 / 10°
R270	QRSA08J-101YN	RESISTOR, BR-S800	100 Ω ,1/10W	R330	QRSA08J-680YN	RESISTOR	68Ω,1/10°
	0004001400VN	RESISTOR, BR-S800	1kΩ,1/10W	R331	QRSA08J-102YN	RESISTOR	1kΩ ,1/10
R271	QRSA08J-102YN	RESISTOR, BR-S800	680 Ω ,1 / 10W	R332	QRSA08J-560YN	RESISTOR	56 Ω ,1 / 10°
R272	QRSA08J-681YN		160 Ω ,1 / 10W	R333	QRSA08J-102YN	RESISTOR	1kΩ,1/10
R273	QRSA08J-161YN	RESISTOR, BR-S800			QRSA08J-152YN	RESISTOR	1.5kΩ ,1 / 10
R274	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W		QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10
R275	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W		QRSA08J-272YN	RESISTOR	2.7kΩ,1/10
R276	QRSA08J-333YN	RESISTOR	33kΩ ,1 / 10W			RESISTOR	1kΩ,1/10
R 277	ORSA08J-273YN		27kΩ,1/10W		QRSA08J-102YN		1kΩ,1/10
R279	QRSA08J-471YN	RESISTOR	470Ω,1/10W		QRSA08J-102YN	RESISTOR	
R280	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W	R339 R340	QRSA08J-393YN QRSA08J-153YN	RESISTOR RESISTOR	39kΩ,1/10 15kΩ,1/10
R281	QRSA08J-101YN	RESISTOR	100Ω,1/10W				
R282	QRSA08J-183YN	RESISTOR	$18k\Omega$,1/10W		QRSA08J-391YN	RESISTOR	390Ω,1/10
R283	QRSA08J-393YN	RESISTOR	$39k\Omega$,1/10W	R343	QRSA08J-821YN	RESISTOR	820Ω,1/10
R284	QRSA08J-821YN	RESISTOR	820 Ω ,1 / 10W	R344	QRSA08J-681YN	RESISTOR	680 Ω ,1 / 10°
FR285	QRSA08J-821YN	RESISTOR	820 Ω ,1 / 10W	R346	QRSA08J-393YN	RESISTOR	$39k\Omega$, $1/10$
R287	QRSA08J-471YN	RESISTOR	470 Ω ,1 / 10W	R347	QRSA08J-103YN	RESISTOR	10kΩ,1/10
R288	QRSA08J-391YN	RESISTOR	390 Ω ,1/10W	R348	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10
R289	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R349	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10
R290	QRSA08J-331YN	RESISTOR	330 Ω ,1/10W	R350	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10
R291	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R351	QRSA08J-271YN	RESISTOR	270 Ω ,1 ∕ 10
FR292	QRSA08J-103YN		10kΩ,1/10W		QRSA08J-103YN	RESISTOR	10kΩ,1/10
	QRSA08J-471YN		470 Ω ,1 / 10W	R354	QRSA08J-102YN	RESISTOR	1kΩ,1/10
R293	QRSA08J-102YN		1kΩ,1/10W		QRSA08J-475YN	RESISTOR	4.7MΩ ,1 / 10
R294	QRSA08J-562YN		5.6kΩ,1/10W		QRSA08J-123YN	RESISTOR, E	
R295		RESISTOR	100kΩ,1/16W		QRSA08J-123YN	RESISTOR, E	
F296	NRVA62D-104N		100kΩ,1/10W	1	QRSA08J-223YN	RESISTOR	22kΩ,1/10
R297	QRSA08J-104YN		1.2kΩ ,1/10W		QRSA08J-103YN	RESISTOR	10kΩ,1/10
R298	QRSA08J-122YN		$1.2k\Omega$, $1/10W$		QRSA08J-222YN	RESISTOR	2.2kΩ,1/10
R299	QRSA08J-122YN				QNOMUOU-2221 N	RESISTOR	2.2844,17 10
R 300	QRSA08J-122YN	RESISTOR	1.2 k Ω , $1/10$ W		OBSANS LINSVA	DECICTOR	1kΩ ,1/10
4 1000				R361	QRSA08J-102YN	RESISTOR	
		DECICEOR	2760 4 /400	maca	ODCARD LIRITYN	DECICTOR	100 0 1 /10
P301	QRSA08J-272YN		2.7kΩ ,1/10W		QRSA08J-101YN	RESISTOR	
	QRSA08J-272YN QRSA08J-122YN QRSA08J-562YN	RESISTOR	$2.7 k\Omega$,1/10W 1.2k Ω ,1/10W 5.6k Ω ,1/10W	R363	QRSA08J-101YN QRSA08J-102YN QRSA08J-392YN	RESISTOR RESISTOR RESISTOR	100Ω,1/10 ¹ 1kΩ,1/10 ¹ 3.9kΩ,1/10

REF No	. PART No.	PART NAME,	DESCRIPTION	#▲REF No.	PART No.	PART NAME, DE	SCRIPTION
R367	QRSA08J-153YN	RESISTOR	15kΩ ,1/10W	R433	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R368	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R434	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R369	QRSA08J-392YN	RESISTOR	3.9 k Ω , $1/10$ W	R435	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
				R436	QRSA08J-102YN	RESISTOR	$1k\Omega ,1/10W$
R378	QRSA08J-471YN	RESISTOR	470Ω,1/10W	R437	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W
R379	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R438	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W
R380	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W	R439	QRSA08J-0R0Y	RESISTOR, BR-S500	0Ω,1/10W
				R440	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10W
R381	QRSA08J-393YN	RESISTOR	39kΩ,1/10W			•	,,,,
R382	QRSA08J-392YN	RESISTOR	$3.9k\Omega$, $1/10W$	R441	QRSA08J-152YN	RESISTOR, BR-S800	1.5kΩ,1/10V
R383	QRSA08J-392YN	RESISTOR	$3.9k\Omega$, $1/10W$	R442	QRSA08J-151YN	RESISTOR	150 Ω ,1 / 10V
R384	QRSA08J-331YN	RESISTOR	330Ω,1/10W	R443	QRSA08J-561YN	RESISTOR	560 Ω ,1/10V
R385	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R444	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
R386	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W	R445	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10V
R387	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R446	QRSA08J-101YN	RESISTOR, BR-S800	100 Ω ,1 / 10V
R388	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/10W	R447	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10V
R389	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W	R448	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
		RESISTOR	10kΩ ,1/10W	R449	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
R390	QRSA08J-103YN	NESISTON	10 8 22 ,1 / 10 44	R450	QRSA08J-0R0Y		
2004	0004001004VN	DECICTOR	220 0 1 / 1014	N430	UHSAUSJ-VHU Y	RESISTOR	0 Ω,1/10V
R391	QRSA08J-331YN	RESISTOR	330Ω,1/10W	D450	0000001400	DE010200 DE 0000	41.04 (44)
R392	QRSA08J-225YN	RESISTOR	2.2MΩ,1/10W	R453	QRSA08J-103YN	RESISTOR, BR-S800	10kΩ,1/10V
R393	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	R454	QRSA08J-0R0Y	RESISTOR, BR-S500	OΩ,1/10V
R394	QRSA08J-392YN	RESISTOR	3.9kΩ ,1/10W	R455	QRSA08J-0R0Y	RESISTOR, BR-S800	OΩ,1/10V
R395	QRSA08J-560YN	RESISTOR	56 Ω ,1/10W	R456	QRSA08J-0R0Y	RESISTOR	0 Ω,1/10V
R396	QRSA08J-182YN	RESISTOR	1.8 k Ω , 1 / 10 W	R457	QRSA08J-103YN	RESISTOR	$10k\Omega$, $1/10V$
R397	QRSA08J-471YN	RESISTOR	470Ω,1/10W	R458	QRSA08J-475YN	RESISTOR	4.7 M Ω , $1/10$ V
R398	QRSA08J-681YN	RESISTOR	680 Ω ,1 / 10W	R459	QRSA08J-334YN	RESISTOR	330k Ω , 1/10V
R399	QRSA08J-271YN	RESISTOR	270Ω ,1/10W	R460	QRSA08J-181YN	RESISTOR	180 Ω,1/10V
R400	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W				
	•			R461	QRSA08J-102YN	RESISTOR	$1k\Omega,1/10V$
R401	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W				
R402	QRSA08J-331YN	RESISTOR	330 Ω ,1 / 10W				
R404	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C1	QCYA1EK-103	CAPACITOR	0.01 μ F,25\
R405	QRSA08J-181YN	RESISTOR	180Ω ,1/10W	C2	NEH11CM-476NP	E CAPACITOR	47 μ F,16\
R406	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10W$	C3	QCYA1EK-103	CAPACITOR	0_01 μ F,25\
R407	QRSA08J-391YN	RESISTOR	390 Ω ,1/10W	C4	NEN11EM-475NZ	E CAPACITOR	4 .7 μ F,25\
R408	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$	C5	NEH11CM-106N	E CAPACITOR	10 μ F,16\
R409	QRSA08J-391YN	RESISTOR	390 Ω ,1/10W	C6	QCYA1EK-103	CAPACITOR	0_01 μ F,25\
R410	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C7	NEH11CM-476NP	E CAPACITOR	47 μ F,16\
*****				C8	QCYA1EK-103	CAPACITOR	0.01 μ F,25\
R411	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C9	NEH51AM-107P	E CAPACITOR	1 00 μ F,10\
R412	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	C10	NEH11CM-476NP	E CAPACITOR	47 μ F,16\
R413	QRSA08J-102YN	RESISTOR	1kΩ,1/10W				-17 μ 1710
R414	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C12	QCTA1CH-221	CAPACITOR	220pF,16\
R415	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W	C14	NEH10JM-107NP	E CAPACITOR	1000 μ F,6.3\
R416	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	C15	NEH51AM-107P	E CAPACITOR	1 00 μ F,10\
R417	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W	C17	QCTA1CH-121		
		RESISTOR		C18		CAPACITOR	120pF,16\
R418	QRSA08J-102YN		$1k\Omega$, $1/10W$		QCYA1EK-103	CAPACITOR	0. 01 μ F,25\
R419	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	C19	NEH51AM-107P	E CAPACITOR	1 0 0 μ F,10\
R420	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	C20	NEH11CM-476NP	E CAPACITOR	4 7 μ F,16\
D404		D. FOLOTO D	470 0 4 /40144	004	ALE: 14.4 13.5 0.0 11.7		
R421	QRSA08J-471YN	RESISTOR	470Ω,1/10W	C21	NEH11HM-225NZ	E CAPACITOR	2.2 μ F,50\
R422	QRSA08J-331YN	RESISTOR	330 Ω ,1 / 10W	C22	NEH11HM-225NZ	E CAPACITOR	2 .2 μ F,50\
R423	QRSA08J-392YN	RESISTOR	3.9kΩ ,1/10W	C23	NEN11EM-475NZ	NP E CAPACITOR	4.7 μ F,25\
R424	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	C24	QCTA1CH-100	CAPACITOR	10pF,16\
R425	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	C25	QCTA1CH-301	CAPACITOR	300pF,16\
R426	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W	C26	QCTA1CH-301	CAPACITOR	300pF,16\
R427	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	C27	QCTA1CH-221	CAPACITOR	220pF,16\
R428	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	C28	QCTA1CH-820	CAPACITOR	82pF,16\
R429	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	C29	QCTA1CH-271	CAPACITOR	270pF,16\
14450							-
11423				C30	QCTA1CH-101	CAPACITOR	1 00pF,16∨
R431	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/10W	C30	QCTA1CH-101	CAPACITOR	1 00pF,16∨

#≜REF No	. PART No.	PART NAME,	DESCRIPTION	#≜REF I	No. PART No.	PART NAME, DES	CRIPTION
C32	QCTA1 CH-331	CAPACITOR	330pF,16V	C91	QCTA1CH-220	CAPACITOR	22pF,16V
C33	QCTA1 CH-301	CAPACITOR	300pF,16V	C92	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C34	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C93	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C35	NEH11 CM-476NP	E CAPACITOR	47 μ F,16V	C94	QCYA1EK-103	CAPACITOR, BR-S800	0.01 μ F,25 V
C36	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C95	QCYA1EK-103	CAPACITOR, BR-S800	
C37	NEH11 HM-105NZ	E CAPACITOR	1 μ F,50V	C96	QCYA1EK-103	CAPACITOR	0.01 μ F,25 V
C38	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	C97	NEH11CM-226NP		22 μ F,16 V
C39	NEH11 HM-105NZ		1 μ F,50V	C98	NEH11HM-474NZ		0.47 μ F,50V
C40	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	C99	QCYA1EK-103	CAPACITOR	0.01 μ F,25 V
040	COTATERIO			C100	NEH11HM-474NZ		0.47 μ F,50V
C41	QCYA1EK-104	CAPACITOR	0.1 μ F,25V				
C42	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C101	QCTA1CH-151	CAPACITOR, BR-S800	
C43	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	C102	QCTA1CH-220	CAPACITOR, BR-S800	
C44	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C103	QCYA1EK-103	CAPACITOR, BR-S800	
C45	NEH11 CM-106 N	E CAPACITOR	10 μ F,16V	C104	NEH11CM-476NP	E CAPACITOR, BR-S8	100 47 μ F,16 V
C46	NEH11 CM-476 NP	E CAPACITOR	47 μ F,16V	C105	QCYA1EK-103	CAPACITOR, BR-S800	0.01 μ F,25V
C47	NEH11CM-106N	E CAPACITOR	10 μ F,16V	C106	QCYA1EK-223	CAPACITOR, BR-S800	0.022 μ F,25V
C48	QCTA1CH-151	CAPACITOR	150pF,16V	C107	QCTA1CH-151	CAPACITOR, BR-S800	150pF,16V
C49	QCYA1EK-103	CAPACITOR, B	R-S800 0.01 µ F,25V	C108	QCTA1CH-560	CAPACITOR, BR-S800	56pF,16V
C50	NEH11CM-476NP	E CAPACITOR,	BR-S800 47 μ F,16V	C109	QCYA1HK-183	CAPACITOR, BR-S800	0.018 µ F,50\
				C110	QCYA1EK-223	CAPACITOR, BR-S800	0.022 μ F,25V
C51	QCYA1EK-103	CAPACITOR, B	R-S800 0.01 µ F,25V				
C52	NEH51 AM-107P		BR-S800 100 μ F,10V	C112	QCYA1EK-103	CAPACITOR, BR-S800	0.01 μ F,25 V
C53	QAT3661-500	TRIM. CAPACIT		C113	QCYA1EK-103	CAPACITOR, BR-S800	
C54	QAT3661-500	TRIM. CAPACI		C114	QCTA1CH-560	CAPACITOR, BR-S800	
C56	QCTA1CH-120	CAPACITOR, B		C115	QCTA1CH-330	CAPACITOR, BR-S800	-
C57	NEH11CM-226NP		· · · · · · · · · · · · · · · · · · ·	C116	QCTA1CH-151	CAPACITOR, BR-S800	
C58	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C117	QCYA1EK-223	CAPACITOR, BR-5800	
C59	NEH11CM-476NP		47 μ F,16V	C118	QCYA1EK-223	CAPACITOR, BR-S800	
C60	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C120	QCYA1EK-223	CAPACITOR, BR-S800	
C61	NEH51 AM-107P	E CAPACITOR	100 μ F,10V	C121	QCTA1CH-181	CAPACITOR	180pF,16V
C62	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C122	QCYA1EK-103	CAPACITOR, BR-S800	
C63	QETA1 AM-108	E CAPACITOR	1000 μ F,10V	C123	QCYA1EK-103	CAPACITOR, BR-S800	
C64	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C124	QCYA1EK-103	CAPACITOR, BR-S800	•
C 65	NEN11EM-225NZ	E CAPACITOR,	BR-S800 2.2 μ F,25V	C125	NEH11CM-476NP	E CAPACITOR, BR-S8	•
C66	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C126	QCYA1EK-103	CAPACITOR, BR-S800	
C 67	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C127	QCYA1EK-104	CAPACITOR, BR-S800	
C68	NEH11HM-474NZ	E CAPACITOR	0.47 μ F,50V	C129	QCTA1CH-6R0	CAPACITOR, BR-S800	6pF,16V
C69	NEH11HM-474NZ	E CAPACITOR	0.47 μ F,50V	C130	QCTA1CH-151	CAPACITOR, BR-S800	
C 70	NEH11EM-475NZ	E CAPACITOR	4.7 μ F,25V	C131	QCYA1EK-104	CAPACITOR, BR-5800	0.1 μ F,25V
C 71	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	C132	QCYA1EK-104	CAPACITOR, BR-S800	0.1 μ F,25V
C72	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C133	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C73	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C134	NEH11CM-476NP		47 μ F,16V
C74	NEH11EM-336NP		33 μ F,25V	C135	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C136	QCTA1CH-271	CAPACITOR	270pF,16V
C75	NEH11EM-336NP		33 μ F,25V	C138	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C76			33 pF,16V	C140			
C77	OCTA1CH-330	CAPACITOR		C140	QCTA1CH-101	CAPACITOR	100pF,16V
C78	QCYA1EK-473	CAPACITOR	0.047 μ F,25V	04.40	00741011470	040401700	47 = 401
C79	QCTA1CH-6R0	CAPACITOR	6pF,16V	C142	QCTA1CH-470	CAPACITOR	47pF,16V
C80	QCTA1CH-100	CAPACITOR	10pF,16V	C143	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
				C144	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C81	QCTA1CH-270	CAPACITOR	27pF,16V	C147	QCTA1CH-820	CAPACITOR	82pF,16V
C 82	QCTA1CH-270	CAPACITOR	27pF,16V	C148	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C83	QCTA1CH-180	CAPACITOR	18pF,16V	C149	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C 84	QCTA1CH-560	CAPACITOR	56pF,16V	C150	QCYA1EK-103	CAPACITOR	$0.01 \mu\text{F,}25\text{V}$
-	QCTA1CH-220	CAPACITOR	22pF,16V				
C 85	QCTA1CH-270	CAPACITOR	27pF,16V	C151	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C85 C86	QCTATOR-270						
	QCTA1CH-471	CAPACITOR	470pF,16V	C152	QCYA1EK-103	CAPACITOR	0.01μ F,25V
C 86			470pF,16V 180pF,16V	C152 C153	QCYA1 EK-103 QCYA1 HK-153	CAPACITOR CAPACITOR	
C86 C87	QCTA1CH-471	CAPACITOR					0.01 μ F,25V 0.015 μ F,50V 0.022 μ F,25V

#≜REF No.	PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME, DESC	RIPTION
C156	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C223	NEH11CM-476NP	E CAPACITOR	47 μ F,16V
C157	QCTA1CH-220	CAPACITOR	22pF,16V	C224	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
C159	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C225	NEH51AM-107P	E CAPACITOR	100 μ F,10V
C160	QCTA1CH-390	CAPACITOR	39pF,16V	C226	QCTA1CH-391	CAPACITOR	390pF,16V
. 0100	COLUMN			C227	QCYA1EK-223	CAPACITOR	0.022 μ F,25V
C161	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C228	NEH11CM-106N	E CAPACITOR	10 μ F,16V
C162	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C229	NEH11CM-106N	E CAPACITOR	10 μ F,16V
	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C230	QCTA1CH-220	CAPACITOR	22pF,16V
C164		CAPACITOR	33pF,16V	0.11	20,111.011.220		
C165	QCTA1CH-330	CAPACITOR	0.01 μ F,25V	C231	QCTA1CH-330	CAPACITOR, BR-S800	33pF,16V
C166	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C232	QCTA1CH-470	CAPACITOR, BR-S800	47pF,16V
C167	QCYA1EK-103	CAPACITOR	33pF,16V	C233	QCYA1EK-223	CAPACITOR	0.022 μ F,25V
C168	QCTA1CH-330		0.022 μ F,25V	C234	QCTA1CH-680	CAPACITOR	68pF,16V
C169	QCYA1EK-223	CAPACITOR	47pF,16V	C234	QCTA1CH-270	CAPACITOR, BR-S800	27pF,16V
C170	QCTA1CH-470	CAPACITOR	4/pr,10 V	C237	QCTA1CH-270	CAPACITOR, BROOM	27pF,16V 22pF,16V
		CARACITOR	22pF,16V	C237	NEH11CM-476NP	E CAPACITOR, BR-S80	
C172	OCTA1CH-220	CAPACITOR		C240			150pF,16V
C173	QCTA1CH-390	CAPACITOR	39pF,16V	6240	QCTA1CH-151	CAPACITOR	laupr, lav
C174	QCTA1CH-120	CAPACITOR	12pF,16V	0044	000/4411// 400	CADACITOD	0.004 F F0\/
C175	QCTA1CH-120	CAPACITOR	12pF,16V	C241	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
C176	QCYA1EK-223	CAPACITOR	0.022 μ F,25V	1			
C180	QCYA1EK-103	CAPACITOR	0.01 μ F,25V		MII44404 004 DV	0011	000 11
				L1	YU41134-221JY	COIL	220 μ H
C181	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	L2	YU41134-221JY	COIL	220 μ H
C182	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L3	PU58201-150J	COIL	15 μ H
C183	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L4	PU58201-180J	COIL	18 μ H
C184	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L5	YU41134-221JY	COIL	220 μ H
C185	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	L6	YU41134-221JY	COIL	220 μ H
C186	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	L7	YU41134-221JY	COIL, BR-S800	220 μ H
C187	QETA1AM-477	E CAPACITOR		L8	YU41134-221JY	COIL	220 μ H
C188	QCYA1HK-682	CAPACITOR	0.0068 μ F,50V	L9	YU41134-470JY	COIL	47 μ H
C189	QCTA1CH-330	CAPACITOR	33pF,16V	L10	PU58201-390J	COIL	39 μ Η
C190	QCYA1EK-473	CAPACITOR	0.047 μ F,25V				
				L11	YU41134-1R0MY	COIL	1 μ Η
C191	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	L12	PU58201-680J	COIL	68 μ H
C193	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L13	PU58201-391J	COIL	390 μ H
C195	QCYA1HK-122	CAPACITOR	0.0012 μ F,50V	L14	PU58201-121J	COIL	120 μ H
C196	OCTA1CH-331	CAPACITOR	330pF,16V	L15	PU58201-820J	COIL	82 μ H
C197	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L16	PU58201-100J	COIL	10 μ H
C198	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L17	PU58201-220J	COIL	22 μ H
C199	NEH11CM-476NP	E CAPACITOR	47 μ F,16V	L18	YU41134-221JY	COIL, BR-S800	220 μ H
C200	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L19	PU58201-331J	COIL, BR-S800	330 μ H
				L20	PU58201-560J	COIL, BR-S800	56 μ H
C201	QCYA1EK-103	CAPACITOR	0.01 μ F,25V				
C202	QETA1CM-107	E CAPACITOR	100 μ F,16V	L21	PU58201-330J	COIL, BR-S800	33 μ H
C203	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L22	YU41134-221JY	COIL, BR-S800	220 μ H
C204	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L23	PU58201-4R7J	COIL, BR-S800	4.7 μ H
C206	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L24	YU41134-221JY	COIL	220 μ H
C207	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L25	PU58201-221J	COIL	$220~\mu$ H
C208	NEH11CM-106N	E CAPACITOR	10 μ F,16V	L27	PU58201-560J	COIL	56 μ H
C209	NEH51AM-107P	E CAPACITOR	100 μ F,10V	L.28	PU58201-120J	COIL	12 μ H
C212	NEH51 AM-107P	E CAPACITOR	100 μ F,10V	L31	YU41134-221JY	COIL	220 μ Η
C213	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	L32	PU58201-221J	COIL	220 μ H
C214	NEH11HM-474NZ		0.47 μ F,50V	L33	PU58201-330J	COIL	33 μ H
C214	NEH11HM-474NZ		0.47 μ F,50V	L35	PU58201-680J	COIL	68 μ H
C216		E CAPACITOR	10 μ F,16V	L36	PU58201-470J	COIL	47 μ H
C216	NEH11CM-106N	CAPACITOR	15pF,16V	L37	PU58201-100J	COIL	10 μ H
	QCTA1CH-150	CAPACITOR	0.01 μ F,25V	L37	PU58201-390J	COIL	39 μ H
C218	OCYA1EK-103	CAPACITOR	39pF,16V	L39	PU58201-221J	COIL	220 μ H
C219	OCTA1CH-390		•	L40		COIL	220 μ H
C220	NEH51 AM-107P	E CAPACITOR	100 μ F,10V	L40	PU58201-100J	OOIL	ΙυμП
C221	QCTA1CH-820	CAPACITOR	82pF,16V	L41	YU41134-221JY	COIL	220 μ Η
C222	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L42	CE40344-821YL	COIL	
				•			

#/	REF No.	PART No.	PART NAME, DESCRI	PTION	#▲REF No.	PART No.	PART NAME, DE	SCRIPTION
	L43	PU58201-331J	COIL	330 μ H	Q2	DTC323TK	TRANSISTOR, BR-S8	
	L44	PU54710-822	COIL	8.2mH	C3	DTB123TS	TRANSISTOR, BR-S8	00
	L46	YU41134-221JY	COIL	220 µ H	Q4	DTC124EK	DIODE, BR-S800	
	L47	YU41134-470JY	COIL	47 μ H				
	L48	YU41134-221JY	COIL	220 µ H	Q101	2SD601A(Q)	TRANSISTOR	
	L49	PU58201-101J	COIL, BR-S800	100 μ H	Q102	2SC3110	TRANSISTOR	
	L50	PU58201-270J	COIL	27 μ H	Q103	2SC3110	TRANSISTOR	
					Q104	2SC3110	TRANSISTOR	
	L51	PU58201-820J	COIL	82 μ H	Q105	2SC3110	TRANSISTOR	
					Q106	2SA933S(Q)	TRANSISTOR, BR-S8	00
					Q107	2SC1741S(QR)	TRANSISTOR, BR-S8	00
	LPF1	PGZ01983	LOW PASS FILTER		Q108	2SA933S(Q)	TRANSISTOR, BR-S8	00
	LPF2	PU60737	LOW PASS FILTER	i	Q109	2SD639R	TRANSISTOR, BR-S8	00
	LPF3	PGZ01981-R	LOW PASS FILTER		Q110	2SD639R	TRANSISTOR, BR-S8	
	LPF4	PGZ01329-R	LOW PASS FILTER	1				
		1 OLUTOLU II	2011 / 7100 / 12121		Q111	2SD601A(Q)	TRANSISTOR	
					Q112	DTC124EK	TRANSISTOR, BR-S8	00
	DL1	PELN0320	LOW PASS FILTER				77,71,10,10,10,10,10,10	
	DL2	PGZ00131-003	DELAY LINE					
	DLZ	FOT00191-009	OTEN I LINE		D1	1SS136	DIODE	
					D2	1SS136	DIODE	
	V1	PGZ00627Z	CHIP FERRATE BEADS		UL.			
Φ	K1	PGZ00627Z	CHIP FERRATE BEADS		D101	RD10ES-T1B1	ZENER DIODE, BR-S	28.0.0
<u> </u>	K2	PG2000272	CHIP FERNALE BEAGS		Divi	1101010-1101	ZENEN DIODE, BIN	200
Δ	TH1	ERT-D2FGL103S	THERMISTOR		R1	QRSA08J-392YN	RESISTOR	3.9kΩ ,1/10
	TH2	ERT-D2FGL103S	THERMISTOR		R2	QRSA08J-103YN	RESISTOR	10kΩ,1/10
Δ	1 F12	ENT-DZFGE1035	MENIMOTOR		R3	QRSA08J-153YN	RESISTOR	15kΩ,1/10
					R4	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10$
	0004	DO701120 02	SPACER, ×2		R5	QRSA08J-152YN	RESISTOR	1.5k Ω ,1/10
	SPC1	PGZ01128-02	SPACEN, AZ		R6	QRSA08J-152YN	RESISTOR	1.5k Ω ,1/10
	•				R7	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10$
		0014000 004	TECT DIN V 15			QRSA08J-122YN		1.2k Ω ,1/10
	TPI	SCV1880-001	TEST PIN, ×15		R8 R9	QRSA08J-102YN	RESISTOR RESISTOR	$1.2 k\Omega / 1 / 10$
	TP2	SCV1880-001	TEST PIN, ×4(GND)		R10	QRSA08J-8R2YN	RESISTOR, BR-S800	8.2Ω,1/10
	CN1	PGZ01937-44	MALE CONNECTOR		R11	QRSA08J-224YN	RESISTOR, BR-S800	220kΩ ,1/10
	CN2	PGZ01937-44	MALE CONNECTOR	Ì	R12	QRSA08J-103YN	RESISTOR	10kΩ,1/10
	CN2	PU59555-114	CONNECTOR	I	R14	QRSA08J-0R0Y	RESISTOR	0Ω,1/10
	CNS	P000000-117	CONTRECTOR	.	R15	QRSA08J-272YN	RESISTOR, BR-S800	2.7kΩ ,1/10
					R19	QRSA08J-101YN	RESISTOR, BR-S800	100 Ω ,1/10
_		- /DEC BOAR	D AGGENTU / /40		R101	QRSA08J-221YN	RESISTOR	220 Ω ,1 / 10
	AV PR	E KEC BOAF	RD ASSEMBLY <12>		R102	QRSA08J-221YN	RESISTOR	220 Ω ,1/10
					R103	QRSA08J-221YN	RESISTOR	220 Ω ,1/10
					R104	QRSA08J-221YN	RESISTOR	220 Ω ,1/10
	PWBA	PRK20222C-02	AV P/R BOARD ASSY,	BR-\$800	R105	QRSA08J-221YN	RESISTOR	220 Ω ,1/10
	PWBA	PRK20222D	AV P/R BOARD ASSY,		R106	QRSA08J-221YN	RESISTOR, BR-S800	220 Ω ,1/10
	. ,,,,,		,		R107	QRSA08J-102YN	RESISTOR	1kΩ,1/10
					R108	QRSA08J-331YN	RESISTOR	330 Ω ,1 / 10
	IC1	BA7743FS	IC		R109	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10
	IC2	M5278 D05	ic		R110	QRSA08J-471YN	RESISTOR	470 Ω ,1 / 10
	IC101	M5278 D09	IC		R111	QRSA08J-470YN	RESISTOR	47Ω,1/10
	IC102	M5278L05	IC		R112	QRSA08J-103YN	RESISTOR	10kΩ,1/10
	IC103	TC4013BF	IC	1	R113	QRSA08J-103YN	RESISTOR	10kΩ,1/10
	IC104	TC4053BF	IC		R114	QRSA08J-470YN	RESISTOR	47Ω,1/10
	IC105	TC4830 F	IC		R115	QRSA08J-103YN	RESISTOR	10kΩ,1/10
	IC105	TC7W02F	IC		R116	QRSA08J-680YN	RESISTOR	68Ω,1/10
			IC(DRY-BKG)		R117	QRSA08J-820YN	RESISTOR	82Ω,1/10
	IC107	UPC2320GS	IO(DITT-DIXG)	l	R118	PGZ01994-601Z	RESISTOR	02 42 ,1 / 10
					R119	PGZ01994-601Z	RESISTOR	
	Q 1	DTC202TV	TRANSISTOR, BR-5800		R120	QRSA08J-103YN	RESISTOR	10kΩ ,1 / 10
		DTC323TK	INAMORIUM, DROUM	1	11140	#1 10U000-100 1 14	11200101	10034,1/ 10

				ODIDTION	# A DEE N	DADT N.	DADT MANE DEC	DIDTION
#△	REF No.	PART No.	PART NAME, DES	CRIPTION	#▲REF No.		PART NAME, DESC	
	R121	PGZ01994-601Z	RESISTOR		C111	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
	R122	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C112	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
	R123	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C113	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
	R124	PGZ01994-601Z	RESISTOR	401.0.4.44011	C114	QCYA1EK-103	CAPACITOR	0.01 μ F,25V
	R125	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C115	QER61CM-106	E CAPACITOR	10 μ F,16V
	R126	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C116	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
	R127	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C117	QCYA1EK-104	CAPACITOR, BR-S800	0.1 μ F,25V
	R128	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C118	QCYA1EK-104	CAPACITOR, BR-S800	0.1 μ F,25V
	R129	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C119	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
	R130	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C120	QEE81VM-474	TANTAL CAPACITOR	0.47 μ F,35V
	R131	QRSA08J-472YN	RESISTOR, BR-S800	$4.7k\Omega$,1/10W	C121	QCYA1HK-222		0.0022 μ F,50V
	R132	QRSA08J-473YN	RESISTOR, BR-S800	$47k\Omega$,1/10W	C122	QCYA1HK-222		0.0022 μ F,50V
	R133	QRSA08J-222YN	RESISTOR, BR-S800	$2.2k\Omega$, $1/10W$	C123	QCTA1CH-9R0	CAPACITOR	9pF,16V
	R134	QRSA08J-473YN	RESISTOR, BR-S800	$47k\Omega$,1/10W	C124	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
	R135	QRSA08J-183YN	RESISTOR, BR-S800	$18k\Omega$, $1/10W$	C125	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
	R136	QRSA08J-121YN	RESISTOR, BR-S800	120Ω , $1/10W$	C126	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
	R137	QRSA08J-104YN	RESISTOR, BR-S800	100kΩ ,1/10W	C127	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
	R138	QRSA08J-104YN	•	$100k\Omega$, $1/10W$	C128	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
	R139	QRSA08J-121YN	RESISTOR, BR-S800	120Ω , $1/10W$	C130	QEE81VM-474	TANTAL CAPACITOR	0.47 μ F,35V
	R140	QRSA08J-221YN	RESISTOR, BR-S800	220 Ω ,1/10W				
					C131	QCYA1EK-104	CAPACITOR	0 .1 μ F,25V
	R141	QRSA08J-391YN	RESISTOR	390 Ω ,1 / 10W	C132	QEE81VM-474	TANTAL CAPACITOR	
	R142	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W	C133	QEE81VM-474	TANTAL CAPACITOR	
	R143	QRSA08J-121YN	RESISTOR, BR-S800	120 Ω ,1/10W	C134	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
	R144	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$, $1/10W$	C135	QCYA1EK-104	CAPACITOR	0.1 μ F,25 V
	R145	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	C136	QEE81VM-474	TANTAL CAPACITOR	
	R146	QRSA08J-0R0Y	RESISTOR	0Ω ,1/10W	C137	QCYA1EK-103	CAPACITOR, BR-S800	0.01 μ F,25V
				•	C137	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
					C138	QCTA1CH-101	CAPACITOR	100pF,16V
	C1	QCYA1HK-102	CAPACITOR, BR-S800		C139	QCTA1CH-101	CAPACITOR	100pF,16V
	C2	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C140	QCTA1CH-101	CAPACITOR	100pF,16V
	C3	QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
	C4	QEE81AM-107	TANTAL CAPACITOR		C141	QCTA1CH-101	CAPACITOR	100pF,16V
	C5	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C142	QCTA1CH-100	CAPACITOR	10pF,16V
	C6	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C143	QCTA1CH-100	CAPACITOR	10pF,16V
	C 7	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C146	QER61CM-106	E CAPACITOR, BR-S8	
	C8	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C147	QCFA1EZ-104	CAPACITOR, BR-S800	3.1 μ F,25V
	C9	QCTA1CH-561	CAPACITOR	560pF,16V	C148	QCF31HP-103	CAPACITOR, BR-S800	0.01 μ F,50V
	C10	QCTA1CH-561	CAPACITOR	560pF,16V	C149 C150	QCBB1 HJ-820 QCBB1 HJ-820	CAPACITOR, BR-S800 CAPACITOR, BR-S800	82pF,50V 82pF,50V
	C11	QER61HM-105	E CAPACITOR	1 μ F,50V	0130	QCBB1110-020	OAFAOITON, BN-3000	02pr,30 ¥
,	C12	QER61HM-105	E CAPACITOR	1 μ F,50V	C151	QCSB1 HJ-560	CAPACITOR, BR-S800	56pF,50V
	C13	QCTA1CH-101	CAPACITOR	100pF,16V	C152	QCC11EJ-123	CAPACITOR, BR-S800	
	C14	QFN31HJ-104	M CAPACITOR, BR-S	800 0.1 μ F,50V	C153	QCS31HJ-820	CAPACITOR, BR-S800	82pF,50V
	C15	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C155	QCFA1EZ-104	CAPACITOR	1.1 μ F,25 V
	C16	QER61CM-476	E CAPACITOR	47 μ F,16V	C156	QCFA1EZ-104	CAPACITOR, BR-S800	1.1 μ F,25V
	C17	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C157	QCYA1HK-103	CAPACITOR, BR-S800	0, 0 1 μ F,50 V
Δ	C18	QCFA1CZ-224	CAPACITOR, BR-S800	0.22 μ F,16V	C158	QCFA1EZ-104	CAPACITOR	1.1 μ F,25V
	C18	QRSA08J-0R0Y	RESISTOR, BR-S500	$0\Omega,1/10W$	C159	QCFA1EZ-104	CAPACITOR	1.1 μ F,25V
	C19	QCYA1HK-102	CAPACITOR, BR-S800	0.001 μ F,50V	0161	OCYA1UV 102	CARACITOR	0.001 E FOV
	0101	00VA1EV 103	CARACITOR	0.01 = 25\/	C161 C162	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
	C101	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	C171	QETC1CM-476	E CAPACITOR RESSON	47 μ F,16V
	C102	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	61/1	QCTA1CH-101	CAPACITOR, BR-S800	1 00pF,16V
	C103	QEE81CM-106	TANTAL CAPACITOR					
	C104	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	1101	VIIA112A 1DARAY	COIL	1 LI
	C105	QEE81CM-106	TANTAL CAPACITOR		L101	YU41134-1R0MY	COIL	1 μ H
	C106	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L102	YU41134-101J	COIL	100 μ H
	C107	QCYA1EK-103	CAPACITOR	0.01 μ F,25V	L103	YU41134-101J	COIL	100 μ H 10 μ H
	C108	QEE81CM-106	TANTAL CAPACITOR		L104	PU48530-100J	COIL	10 μ H 100 μ H
	C109	QEE81CM-106	TANTAL CAPACITOR CAPACITOR	10 μ F,16V 0.01 μ F,25V	L105 L106	YU41134-101J PU48530-560J	COIL, BR-S800 COIL, BR-S800	56 μ H
	C110	QCYA1EK-103	UNFAULUN	V.VI μ Γ,23 V	L107	PU48530-3R3J	COIL, BR-S800	3.3 μ H
				i	LIU	I OTOBOTO DOS	COIL, DINGOU	J.J μ IT

	REF No.	PART No.	PART NAME, DESCRIPTION	#▲REF No.	PART No.	PART NAME, DES	CRIPTION
4	K1	PU60281-2Z	FERRATE BEADS, ×2(K1,K2)	D501	DAN202K	DIODE	
	K101	PU60281-2Z	FERRATE BEADS				•
		PU60281-2Z	FERRATE BEADS	R501	NVP1415-102N	V RESISTOR	1kΩ,1/4V
7	K102			R502	NVP1415-102N	V RESISTOR	1kΩ,1/4V
	K104	PU60281-2Z	FERRATE BEADS				
	K105	PU60281-2Z	FERRATE BEADS	R503	NVP1415-502N	V RESISTOR	5kΩ ,1/4\
	K106	PU60281-2Z	FERRATE BEADS, BR-S800				
	K107	PU60281-2Z	FERRATE BEADS	R511	QRSA08J-223YN	RESISTOR	22kΩ,1/10\
		PU60281-2Z	FERRATE BEADS, BR-S800	R512	QRSA08J-223YN	RESISTOR	22kΩ,1/10\
	K108	PU00201-22	PENNATE BEADO, BITOUR	R513	QRSA08J-471YN	RESISTOR	470 Ω ,1 / 10\
				R514	QRSA08J-471YN	RESISTOR	470 Ω ,1/10\
	T101	PU56175	S.TRANS, BR-S800	R515	QRSA08J-681YN	RESISTOR	680 Ω ,1/10\
				R525	QRSA08J-223YN	RESISTOR	22kΩ,1/10
	BKT1	PRD44235	BOARD BRACKET, ×2	R526	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
		11,51,100		R527	QRSA08J-102YN	RESISTOR	1kΩ,1/10\
				R528	QRSA08J-102YN	RESISTOR	1kΩ,1/10\
	SCW1	DPSP2608Z	SCREW, × 2	R529	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10\
	SCW2	WBS2600N	WASHER, × 2	R530	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10$
				R531	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
	SLD1	PQ33493	SHIELDE CASE, BR-S800	R532	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10
	SLD2	PQ33494	SHIELDE COVER, BR-S800	R533	QRSA08J-102YN	RESISTOR	1kΩ,1/10\
				R534	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
	SLD3	PRS40034	SHIELD CASE				
		- 2		R535	QRSA08J-472YN	RESISTOR	$4.7k\Omega$, $1/10$
				R536	QRSA08J-683YN	RESISTOR	68kΩ,1/10\
	TPI	SQMX001-001Z	TEST PIN, ×7:BR-S800 ×6:BR-S500	R537	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10\
	•••	V 4.11.7.1		R538	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
				R539	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
	CN1	PU59555-103	CONNECTOR	R540	QRSA08J-472YN	RESISTOR	4.7 k Ω , 1 / 10 V
	CN2	PU59555-104	CONNECTOR				
	CN2	PU59555-106	CONNECTOR, BR-S800	R541	QRSA08J-123YN	RESISTOR	12kΩ,1/10V
	CN3	PU56258-14	CONNECTOR	R542	QRSA08J-0R0Y	RESISTOR	0Ω,1/10\
			CONNECTOR	1.0.12			0 00 71 7 7 7 7
	CN5	PU59555-106	CONNECTOR				
	CN6	PU59555-114	CONNECTOR	0501	OCVATER 103	CAPACITOR	0.01 μ F,25
				C501	QCYA1EK-103		
				C502	QCTA1CH-470	CAPACITOR	47pF,16
				C507	QCYA1EK-103	CAPACITOR	0.01μ F,25
				C508	QCTA1CH-121	CAPACITOR	120pF,16
	BURST	ADD BOARD	ASSEMBLY <15>	C509	QCYA1EK-103	CAPACITOR	0.01 μ F,25
				C510	OCYA1EK-103	CAPACITOR	0.01 μ F,25
	PWBA	PRK20276A-01	BURST ADD BOARD ASSY	C511	QCYA1EK-103	CAPACITOR	
	PWBA	PRK20276A-01	BURST ADD BOARD ASSY	C511 C512	QCYA1EK-103 QCTA1CH-471	CAPACITOR CAPACITOR	
	PWBA	PRK20276A-01	BURST ADD BOARD ASSY	C512	QCTA1CH-471	CAPACITOR	470pF,16
				C512 C513	OCTA1CH-471 OCYA1HK-102	CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50
	IC502	NJM2234M	ic .	C512 C513 C514	QCTA1CH-471 QCYA1HK-102 QCYA1HK-153	CAPACITOR CAPACITOR CAPACITOR	470pF,16' 0.001 μ F,50' 0.015 μ F,50'
			IC IC	C512 C513 C514 C515	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16
	IC502	NJM2234M	ic .	C512 C513 C514 C515 C516	QCTA1CH-471 QCYA1HK-102 QCYA1HK-153	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16
	IC502 IC503 IC504	NJM2234M TC74HC4538AF NJM567M	IC IC	C512 C513 C514 C515	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25
	IC502 IC503	NJM2234M TC74HC4538AF	IC IC	C512 C513 C514 C515 C516 C517	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25
	IC502 IC503 IC504	NJM2234M TC74HC4538AF NJM567M	IC IC	C512 C513 C514 C515 C516 C517 C518	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16
	IC502 IC503 IC504 IC505	NJM2234M TC74HC4538AF NJM567M TC7S04F	IC IC IC	C512 C513 C514 C515 C516 C517 C518 C519	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25
	IC502 IC503 IC504 IC505	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS)	IC IC IC IC TRANSISTOR	C512 C513 C514 C515 C516 C517 C518	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25
	IC502 IC503 IC504 IC505	NJM2234M TC74HC4538AF NJM567M TC7S04F	IC IC IC IC TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25
	IC502 IC503 IC504 IC505	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS)	IC IC IC IC TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25
	IC502 IC503 IC504 IC505 C501 C502 C502	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS)	IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	QCTA1CH-471 QCYA1HK-102 QCYA1HK-153 NEE21CM-225RY NEE21EM-105RY QCYA1EK-104 NFV41CJ-103AY QCYA1EK-103 NEE21AM-476RZ	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS) 2SC2412K(RS)	IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103 NEE21AM-476RZ	CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR COIL	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508 C509	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS)	IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	QCTA1CH-471 QCYA1HK-102 QCYA1HK-153 NEE21CM-225RY NEE21EM-105RY QCYA1EK-104 NFV41CJ-103AY QCYA1EK-103 NEE21AM-476RZ	CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508 C509 C510	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS)	IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103 NEE21AM-476RZ PU58201-180J YU41134-101J	CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR COIL COIL	470 pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508 C509	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS)	IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103 NEE21AM-476RZ	CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR COIL	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508 C509 C510	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS)	IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103 NEE21AM-476RZ PU58201-180J YU41134-101J	CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR COIL COIL	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508 C509 C510	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS)	IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103 NEE21AM-476RZ PU58201-180J YU41134-101J	CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR COIL COIL	470pF,16 0.001 μ F,50 0.015 μ F,50 2.2 μ F,16 1 μ F,25 0.1 μ F,25 0.01 μ F,16 0.01 μ F,25 47 μ F,10
	IC502 IC503 IC504 IC505 C501 C502 C507 C508 C509 C510	NJM2234M TC74HC4538AF NJM567M TC7S04F 2SC2412K(RS) 2SA1037K(QR) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS) 2SC2412K(RS)	IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	C512 C513 C514 C515 C516 C517 C518 C519 C520	OCTA1CH-471 OCYA1HK-102 OCYA1HK-153 NEE21CM-225RY NEE21EM-105RY OCYA1EK-104 NFV41CJ-103AY OCYA1EK-103 NEE21AM-476RZ PU58201-180J YU41134-101J	CAPACITOR CAPACITOR TANTAL CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR CAPACITOR CAPACITOR CAPACITOR TANTAL CAPACITOR COIL COIL	

		AATHANI V	R3	QRSA08J-562YN	RESISTOR	5.6kΩ,1/
M AL	IDIO BOARD A	ASSEMBLY <20>	R4	QRSA08J-472YN	RESISTOR	4.7kΩ,1/
			R7	QRSA08J-0R0Y	RESISTOR	0Ω,1/
			R8		RESISTOR	
				QRSA08J-274YN		270kΩ,1/
PWBA	PRK10171A-01	FM AUDIO BOARD ASSY, BR-S800	R9	QRSA08J-823YN	RESISTOR	82kΩ,1/
WBA	PRK10171B-01	FM AUDIO BOARD ASSY, BR-S500	R10	QRSA08J-104YN	RESISTOR	100kΩ,1/
			R11	QRSA08J-103YN	RESISTOR	10kΩ,1/
C1	M5278 D05	IC	R12	QRSA08J-183YN	RESISTOR	18kΩ,1/
C2	JCP0038	1C	R13	QRSA08J-332YN	RESISTOR	3.3kΩ,1/
IC3	TC4052BF	IC	R14	QRSA08J-303YN	RESISTOR	30kΩ,1/
IC4	TC4052BF	ic	R16	QRSA08J-0R0Y	RESISTOR	0Ω,1/
IC5	M51132L	ic	R17	QRSA08J-183YN	RESISTOR	18kΩ,1/
		ic	R18	QRSA08J-104YN	RESISTOR	100kΩ,1/
IC6	M5218AFP-XE1					
IC7	TL082CPS	IC	R19	QRSA08J-332YN	RESISTOR	3.3kΩ,1/
IC8	AN6041	IC, BR-\$800	R20	QRSA08J-332YN	RESISTOR	$3.3k\Omega$,1/
IC9	M37451E8-505FP	IC(DRY), BR-S800				
IC9	M37451E8-504FP	IC(DRY), BR-S500	R21	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/
IC10	BR24C01AF	IC	R22	QRSA08J-333YN	RESISTOR, BR-S800	33kΩ,1/
			R23	QRSA08J-123YN	RESISTOR, BR-S800	12kΩ,1/
IC11	M62353GP	IC	R24	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/
IC12	M62353GP	ic	R25	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/
		ic	R26	QRSA08J-391YN	RESISTOR, BR-S800	390 Ω ,1/
IC13	TC4051BF		R27	QRSA08J-102YN		
IC14	M5218AFP-XE1	IC			RESISTOR, BR-S800	1kΩ,1/
IC15	M5218AFP-XE1	IC	R28	QRSA08J-223YN	RESISTOR, BR-S800	22kΩ,1/
IC19	M5218AFP-XE1	IC, BR-\$800	R29	QRSA08J-332YN	RESISTOR, BR-S800	$3.3k\Omega$,1/
			R30	QRSA08J-223YN	RESISTOR, BR-S800	22kΩ,1/
Q1	2SD973AR	TRANSISTOR	R31	QRSA08J-223YN	RESISTOR, BR-S800	22kΩ,1/
Q2	2SK208	FE TRANSISTOR	R32	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/
Q3	2SK208	FE TRANSISTOR	R37	QRSA08J-472YN	RESISTOR	4.7kΩ,1/
Q4	2SC2412K	TRANSISTOR, BR-S800	R38	QRSA08J-472YN	RESISTOR	4.7kΩ,1/
		TRANSISTOR, BR-S800	R39	QRSA08J-511YN	RESISTOR	510Ω,1/
Q5	2SA1037K					
Q6	2SC2412K	TRANSISTOR, BR-S800	R40	QRSA08J-511YN	RESISTOR	510Ω,1/
Q 7	DTC124EK	TRANSISTOR				
Q8	DTC124EK	TRANSISTOR	R41	QRSA08J-472YN	RESISTOR	$4.7k\Omega$,1/
Q9	DTC124EK	TRANSISTOR	R42	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/$
Q10	DTC124EK	TRANSISTOR	R43	QRSA08J-513YN	RESISTOR	51kΩ,1/
			R44	QRSA08J-513YN	RESISTOR	51kΩ,1/
Q11	DTC323TK	TRANSISTOR	R45	QRSA08J-101YN	RESISTOR	100Ω.1/
Q12	DTC124EK	TRANSISTOR	R46	QRSA08J-101YN	RESISTOR	100Ω,1/
Q13	DTC124EK	TRANSISTOR	R47	QRSA08J-223YN	RESISTOR	22kΩ,1/
		TRANSISTOR	R48	QRSA08J-223YN	RESISTOR	22kΩ,1/
Q14	2SC2412K(RS)					
Q15	DTA124EK	TRANSISTOR	R49	QRSA08J-101YN	RESISTOR	100Ω,1/
Q17	DTC124EK	TRANSISTOR, BR-S800	R50	QRSA08J-101YN	RESISTOR	100Ω ,1/
Q18	DTA124EK	TRANSISTOR, BR-S800				
Q19	DTA124EK	TRANSISTOR, BR-S800	R51	QRSA08J-822YN	RESISTOR	8.2kΩ ,1 ∕
Q20	DTC124EK	TRANSISTOR	R52	QRSA08J-822YN	RESISTOR	8.2kQ ,1/
			R53	QRSA08J-103YN	RESISTOR	10kΩ ,1/
Q21	DTC323TK	TRANSISTOR	R54	QRSA08J-103YN	RESISTOR	10kΩ.1/
022	DTA124EK	TRANSISTOR	R55	QRSA08J-123YN	RESISTOR	12kQ ,1/
CAL C	DIMILTER	TIME TO THE TENT OF THE TENT O	R56	QRSA08J-103YN		10kQ ,1/
					RESISTOR	
		DIOD.	R57	QVPC625-103Z	V RESISTOR	1
D1	DA204K	DIODE	R58	QVPC625-682Z	V RESISTOR	6.
D2	DA204K	DIODE	R59	QRSA08J-683YN	RESISTOR	68kΩ,1/
D3 D4	DA204K	DIODE ZENER DIODE	R60	QRSA88J-683YN	RESISTOR	68kΩ.1/
.	RD5.1ES-T1B1	ACITEN DIODE	R61	QRSA08J-684YN	RESISTOR	680k(2,1/
DA1	DA204K	DIODE	R62	QRSA08J-684YN	RESISTOR	680k 2,1/
2	PUPPALITY.	5	R63	QRSA08J-684YN	RESISTOR	680k(2,1/
			R64	QRSA08J-684YN	RESISTOR	680k(2.1/
			INT	WI 1000000000 1 14	TEORIUIUN	JUUA 11/
R1	QRSA08J-821YN	RESISTOR 820 Ω ,1 / 10W	R65	QRSA08J-123YN	RESISTOR, BR-S800	12k(2.1/

#≜REF No.	PART No.	PART NAME, DES	CRIPTION	#▲REF No.	PART No.	PART NAME, DES	CRIPTION
R67	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R140	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R68	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R141	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R71	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R142	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R143	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R72		RESISTOR	47kΩ,1/10W	R144	QRSA08J-224YN	RESISTOR	220kΩ,1/10W
R73	QRSA08J-473YN			R145	QRSA08J-224YN	RESISTOR	220kΩ,1/10W
R74	QRSA08J-473YN	RESISTOR	47kΩ,1/10W				22kΩ,1/10W
R75	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R146	ORSA08J-223YN	RESISTOR	
FR76	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R147	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R77	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R148	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
FR78	QRSA08J-103YN	RESISTOR	$10k\Omega$, $1/10W$		•		
R79	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R201	QRSA08J-223YN	RESISTOR, BR-S800	22kΩ,1/10W
R80	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R202	QRSA08J-683YN	RESISTOR, BR-S800	68kΩ,1/10W
				R203	QRSA08J-273YN	RESISTOR, BR-S800	27kΩ ,1/10W
F81	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R204	QRSA08J-223YN	RESISTOR, BR-S800	22kΩ ,1/10W
	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R205	QRSA08J-823YN	RESISTOR	82kΩ ,1/10W
R82		RESISTOR	10kΩ,1/10W	R206	QRSA08J-823YN	RESISTOR	82kΩ ,1/10W
R83	QRSA08J-103YN			R207	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R84	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	1			
R85	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R208	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W
R86	ORSA08J-393YN	RESISTOR	$39k\Omega$,1/10W	R209	QRSA08J-152YN	RESISTOR	1.5 k Ω , $1/10$ W
R87	QRSA08J-821YN	RESISTOR	820 Ω ,1 / 10W				
R88	QRSA08J-821YN	RESISTOR	820 Ω ,1 / 10W	R211	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
F89	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R212	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
1,50				R213	QRSA08J-332YN	RESISTOR, BR-S800	3.3kΩ ,1/10W
R101	QRSA08J-105YN	RESISTOR	1MΩ,1/10W	R214	QRSA08J-332YN	RESISTOR, BR-S800	3.3kΩ ,1/10W
R102	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R215	NRVA62D-123N	RESISTOR	12kΩ,1/16W
	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R216	NRVA62D-123N	RESISTOR	12kΩ,1/16W
R103		RESISTOR	1kΩ,1/10W	R217	QRSA08J-105YN	RESISTOR	1MΩ,1/10W
R105	QRSA08J-102YN			11217	Q11071000-100111	TILDIOTOTI	110.64 ,1 / 10.00
R106	QRSA08J-104YN	RESISTOR	100kΩ,1/10W				
R107	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	-		E 04040/E00	400 54014
R108	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	C1	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
R109	QRSA08J-104YN	RESISTOR	100kΩ ,1/10W	C2	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
				C3	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
R111.	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	C4	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
R112	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	C5	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R113	QRSA08J-101YN	RESISTOR	100 Ω ,1/10W	C6	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
R114	QRSA08J-104YN		100kΩ,1/10W	C7	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R115	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C8	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
	QRSA08J-104YN		100kΩ,1/10W		QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
R116			10kΩ,1/10W		421010111 11111		
R117	QRSA08J-103YN				QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
R118	QRSA08J-103YN		10kΩ,1/10W	*			
R119	QRSA08J-473YN		47kΩ,1/10W		QETC0JM-107ZE	E CAPACITOR	100 μ F,6.3V
R120	QRSA08J-223YN	RESISTOR, BR-S800	$22k\Omega$, $1/10W$		QETCOJM-107ZE	E CAPACITOR	100 μ F,6.3V
				C14	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
R121	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	C15	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R122	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	C16	QCYA1HK-473	CAPACITOR	0.047 μ F,50V
R123	QRSA08J-823YN		82kΩ,1/10W	C17	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R124	QRSA08J-823YN		82kΩ,1/10W		QETC1HM-104	E CAPACITOR	0.1 μ F,50V
			82kΩ,1/10W		QCTA1CH-471	CAPACITOR	470pF,16V
R125	QRSA08J-823YN		56kΩ,1/16W	1	QCTA1CH-561	CAPACITOR	560pF,16V
R126	NRVA62D-563N	RESISTOR			QOIAIOH-001	ONI NOTI OTT	adoba , i o v
R127	NRVA62D-123N	RESISTOR	12kΩ,1/16W		00/445//404	OADAOITOD.	5.4 F.0EV
R128	NRVA62D-272N	RESISTOR	2.7kΩ ,1/16W		QCYA1EK-104	CAPACITOR	0.1 μ F,25V
R129	NRVA62D-151 N	CMF RESISTOR	150 Ω ,1/16W		QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
				C25	QETC1CM-476ZE	E CAPACITOR, BR-S	
R131	NRVA62D-393N	RESISTOR	39kΩ,1/16W	C26	QCTA1CH-101	CAPACITOR, BR-S80	0 100pF,16V
R132	NRVA62D-393N	RESISTOR	39kΩ,1/16W	C27	QCYA1HK-223	CAPACITOR, BR-S80	0 0.022 μ F,50V
R133	NRVA62D-393N	RESISTOR	39kΩ,1/16W	1	QCTA1CH-121	CAPACITOR, BR-S80	0 120pF,16V
R134	NRVA62D-393N	RESISTOR	39kΩ,1/16W		QETC1CM-476	E CAPACITOR, BR-S	800 47 u F,16V
	NRVA62D-393N	RESISTOR	39kΩ,1/16W		QCYA1HK-103	CAPACITOR, BR-S80	· ·
R135		RESISTOR	39kΩ,1/16W		2011111111111111111		- 0.01 p # 100 t
R136	NRVA62D-393N				QCYA1HK-103	CAPACITOR, BR-S80	0 0.01 μ F ,50V
R137	NRVA62D-393N	RESISTOR	39kΩ ,1 / 16W				
R138	QRSA08J-103YN QRSA08J-104YN		10kΩ,1/10W 100kΩ,1/10W		QCYA1HK-103	CAPACITOR, BR-S80 CAPACITOR, BR-S80	
R139		RESISTOR		י פריז י	QCYA1HK-103		

#≜REF No	PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME, DES	CRIPTION
C35	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C92	QCYA1HK-222	CAPACITOR, BR-S800	0.0022 μ F,50V
C36	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C93	QCYA1HK-103	CAPACITOR, BR-S800	0.01 μ F,50V
C37	QETC1CM-336ZE	E CAPACITOR	33 μ F,16V	C94	QCYA1HK-103	CAPACITOR, BR-S800	0.01 μ F,50V
C38	QETC1CM-336ZE	E CAPACITOR	33 μ F,16V	C95	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
C39	QFN31HJ-473	M CAPACITOR	0.047 μ F,50V	C96	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
C40	QFN31HJ-473	M CAPACITOR	0.047 μ F,50V	C97	QETC1CM-106	E CAPACITOR	10 μ F,16V
040	QI NOTTIO 170			C98	QETC1CM-106	E CAPACITOR	10 μ F,16V
C41	QETC1HM-225ZE	E CAPACITOR	2.2 μ F,50V		a=1010111111		
C42	QETC1HM-225ZE	E CAPACITOR	2.2 μ F,50V	C101	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
	QFN31HJ-333	M CAPACITOR	0.033 μ F,50V	C102	QCTA1CH-470	CAPACITOR	47pF,16V
C43	QFN31HJ-333	M CAPACITOR	0.033 μ F,50V	C103	QCTA1CH-270	CAPACITOR	27pF,16V
C44		E CAPACITOR	10 μ F,16V	C104	QCYA1EK-104	CAPACITOR	8.1 μ F,25V
C45	QETC1CM-106ZE	E CAPACITOR	10 μ F,16V	C105	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
C46	QETC1CM-106ZE		220 μ F,16V	C106	QCYA1EK-104	CAPACITOR	0.1 μ F,25V 0.1 μ F,25V
C47	QETC1CM-227ZE	E CAPACITOR	220 μ F,16V	C107	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
C48	QETC1CM-227ZE	E CAPACITOR		C107			
C49	QETC1HM-225ZE	E CAPACITOR	2.2 μ F,50V	1	QCYA1EK-104	CAPACITOR	0.1 μ F,25V
C50	QETC1 HM-225ZE	E CAPACITOR	2.2 μ F,50V	C109	QETC1CM-226ZE	E CAPACITOR, BR-S8	
				C110	QCTA1CH-221	CAPACITOR, BR-S800	· 220pF,16V
C51	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V				
C52	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V	C111	QCYA1HK-103	CAPACITOR, BR-S800	
C53	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	C114	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
C54	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	C115	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
C55	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C116	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
C56	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C117	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
C57	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C119	QETC1CM-106	E CAPACITOR	10 μ F,16V
C58	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C120	QETC1CM-476	E CAPACITOR	47 μ F,16V
C59	QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V				
C60	QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V	C121	QCTA1CH-100	CAPACITOR	10pF,16V
000				C122	QETC1CM-106	E CAPACITOR	10 μ F,16V
C61	QFN31HJ-104	M CAPACITOR	0.1 μ F,50V	C123	QETC1CM-476	E CAPACITOR	47 μ F,16V
C62	QFN31HJ-104	M CAPACITOR	0.1 μ F,50V	C124	QETC1CM-476	E CAPACITOR	47 μ F,16V
C63	QFN31HJ-223	M CAPACITOR	0.022 μ F,50V	C125	QCFA1CZ-224	CAPACITOR	0.22 μ F,16V
C64	QFN31HJ-223	M CAPACITOR	0.022 μ F,50V	C126	QCFA1CZ-224	CAPACITOR	0.22 μ F,16V
C65	OCTA1CH-821	CAPACITOR	820pF,16V	C127	QCFA1CZ-224	CAPACITOR	0.22 μ F,16V
C66	OCTA1CH-821	CAPACITOR	820pF,16V	C129	QETC1CM-476	E CAPACITOR	47 μ F,16V
C67	QFN31HJ-392	M CAPACITOR	0.0039 μ F,50V	C130	QETC1CM-476	E CAPACITOR	47 μ F,16V
	QFN31HJ-392	M CAPACITOR	0.0039 μ F,50V	0.00	QE1010W1470	L ON AUTON	47 μ 1 ,10 γ
C68		CAPACITOR	0.1 μ F,25V	C131	QETC1CM-476	E CAPACITOR	47 μ F,16V
C69	OCYATEK-104	CAPACITOR	0.1 μ F,25V	C133	QETC1CM-476	E CAPACITOR	47 μ F,16V
C70	QCYA1EK-104	CAPACITOR	υ, ι μ Γ, ευ γ	C134	QETC1CM-476	E CAPACITOR	
074	0770401447675	E CARACITOR	47 E 16V	C135	QCYA1HK-272		47 μ F,16V
C71	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V 4.7 μ F,25V	C136	QETC1CM-106	CAPACITOR E CAPACITOR	0.1 0 27 μ F,50V 10 μ F,16V
C72	QENC1 EM-475	CAPACITOR					
C73	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C137	QCYA1HK-102	CAPACITOR	1.001 μ F,50V
C74	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	0400	000000000000000000000000000000000000000	F 04 D4 0/TOD	47 5401/
C75	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C168	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
C76	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C169	QETC1CM-476	E CAPACITOR	47 μ F,16V
C77	QENC1CM-106	E CAPACITOR	10 μ F,16V		. —		
C78	QENC1CM-106	E CAPACITOR	10 μ F,16V	C201	QETC1CM-106	E CAPACITOR	10 μ F,16V
C79	QENC1 CM-186	NP E CAPACITO		C202	QETC1CM-106	E CAPACITOR	10 μ F,16V
C80	QENC1 CM-106	NP E CAPACITO	R 10 μ F,16V				
C81	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	L1	PU30284-1R	COIL	100 μ H
C82	QETC1CM-226ZE	E CAPACITOR	22 μ F,16V	L2	PU30284-1R	COIL	100 μ H
C83	QETC1 EM-475ZE	E CAPACITOR	4.7 μ F,25V	L3	PU48530-331J	COIL	330 μ H
C84	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	L5	PU48530-331J	COIL	330 μ H
C85	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	L6	PU48530-331J	COIL	330 μ H
C86	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V				p- 11
C87	QENC1CM-106	NP E CAPACITO					
C88	QENC1CM-106	NP E CAPACITO		BPF1	PU60610	BPF(1.4MHZ)	
C89	QCYA1HK-222		\$800 0.0022 µ F,50V	BPF2	PU60611	BPF(1.8MHZ)	
C30	QCYA1HK-222		S800 0.0022 μ F,50V	0172	, 000011	DIT (1.0 (VIII (L)	
C91	QCYA1HK-222	CAPACITOR, BR-	\$800 0.0022 μ F,50V	∆ X1	PEVB0335	CRYSTAL RESONATO	R

REF No	. PART No.	PART NAME, DESCRIPTION	#≜ REF	No. PART N	o. PART NAME,	DESCRIPT
CL1	PGZ01978	MINI CLAMP, BR-S800	Q11	DTC323TK	TRANSISTOR	
			Q12	DTC323TK	TRANSISTOR	
HD1	PU60521	BOARD HOLDER, ×2	Q13	DTC323TK	TRANSISTOR	-
HD2	PU60522	BOARD HOLDER	Q14	DTC323TK	TRANSISTOR	
102	1 000022		Q15	DTC124EK	TRANSISTOR	
			Q16	DTC124EK		
		CDACED VA	017	DTA124E		
SPC1	PGZ01128-02	SPACER, × 2				
			Q18	DTA124EH		
			Q19	DTC323TK		
TP1	SQMX001-001Z	TEST PIN, ×6	Q20	DTC323TK	TRANSISTOR	
			021	DTC323TK	TRANSISTOR	
		MALE CONNECTOR	Q22	DTC323TK		
CN1	PGZ01937-44	MALE CONNECTOR	UZZ	DICSZSIA	THANSION	
CN2	PU59555-4	CONNECTOR, BR-S500				
CN2	PU59555-6	CONNECTOR, BR-S800	Q20			
CN3	PU59973-18	CONNECTOR, BR-S800	Q20	2 2SD638R,	S TRANSISTOR	
CN4	PU59973-30	CONNECTOR	Q20	3 2SA1037K	TRANSISTOR	
CN5	PU59973-30	CONNECTOR	Q20	2SA1037K	TRANSISTOR	
3110	, 0000,000		Q20			
			Q20			
			Q20			
			Q20			
N. AU	DIO BOARD	ASSEMBLY, BR-S800 <21>	UZU	23024121	INANSISTUR	
			Q21	3 2SA1037K	TRANSISTOR	
			021			
-	PP1/000744 00	NORMAL AUDIO BOARD ASSY				
PWBA	PRK20274A-03	NORMAL AUDIO BOARD ASST		•		
			∆ Q21			
			Q21			
IC1	BA7765AS	IC	Q21	3 2SC2412K	TRANSISTOR	
	or XRA7765AS	IC	△ Q21	2SD638R,	S TRANSISTOR	
IC2	BA7765AS	IC	△ Q22	2SD638R,	S TRANSISTOR	
	or XRA7765AS	ic				
		IC	Q22	2SC2412K	TRANSISTOR	
IC3	CXA1101P					
IC4	CXA1101P	IC	Q22			
IC5	M5218 AP	IC	Q22			
IC6	M5218 AP	IC	Q22			
IC7	M51132L	IC	Q22	2SC2412K	TRANSISTOR	
IC8	M51132L	IC	Q22	5 2SC2412K	TRANSISTOR	
IC9	M51132L	IC	Q22	7 2SC2412K	TRANSISTOR	
IC10	M51132L	IC	Q22			
1010	11101101-	.0	Q22			
1011	TOARE 2 DD	IC	Q23			
IC11	TC4053BP	IC	Q2.5	DIAIZACI	\ Inanoioron	
IC201	NJM4560D	IC	Q23	DTC124E	TRANSISTOR	
IC202	M5218 AP	IC	Q23			
10202	HINTIOM		Q23			
10004	TOARGEDD	ıc	Q23			
IC301	TC4066BP	IC	423	20024121	INAMOSTUR	
IC302	M5218AP	IC		DW1444-	/ WD 4 140-000	
IC303	M5218AP	IC	Q30			
C304	UPC393C	IC .	O30			
IC305	M5278 L09	IC	Q38	DTA124E	C TRANSISTOR	
			Q30	DTC323TH	TRANSISTOR	
			C30	2SC2412K	TRANSISTOR	
Q 1	2SD973R	TRANSISTOR				
Q 2	DTC124EK	TRANSISTOR				
O3	DTC124EK	TRANSISTOR	D1	ERA15-02	PNLB DIQDE	
04	DTC124EK	TRANSISTOR				
		TRANSISTOR	D20	RD5.6ES-T	1B2 ZENER DIODE	
Q5	2SC2412K(QR)					
Q 6	DTC124EK	TRANSISTOR	D20:	RD5.6ES-T	1B2 ZENER DIODE	
Q 1	DTC124EK	TRANSISTOR				
Q 8	DTC124EK	TRANSISTOR	D30:	P DA204K	DIODE	
09	DTA124EK	TRANSISTOR				

THEL IN	. PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME,	DESCRIPTION
R1	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/10W$	R61	QRSA08J-820YN	RESISTOR	82 Ω ,1 / 10V
R2	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R62	QRSA08J-820YN	RESISTOR	82 Ω ,1 / 10 ¹
R3	QRSA08J-473YN	RESISTOR	47kΩ ,1/10W	R63	QRSA08J-223YN	RESISTOR	$22k\Omega$,1/10
R4	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R64	QRSA08J-223YN	RESISTOR	22kΩ,1/10
R5	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$	R65	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10$
R6	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$	R66	QRSA08J-102YN	RESISTOR	1kΩ,1/10
R7	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R67	QRSA08J-105YN	RESISTOR	1MΩ,1/10
R9	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	R68	QRSA08J-105YN	RESISTOR	1MΩ,1/10
R10	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	1,00		1120,01011	111111111111111111111111111111111111111
				R71	QRSA08J-392YN	RESISTOR	$3.9k\Omega$,1/10
R11	QRSA08J-124YN	RESISTOR	$120k\Omega$, $1/10W$	R72	QRSA08J-392YN	RESISTOR	3.9 k Ω , $1/10$
R12	QRSA08J-124YN	RESISTOR	$120k\Omega$, $1/10W$	R73	QRSA08J-331YN	RESISTOR	330 Ω,1/10 ¹
R13	QRSA08J-432YN	RESISTOR	4.3kΩ ,1/10W	R74	QRSA08J-331YN	RESISTOR	330 Ω,1/10
R14	QRSA08J-432YN	RESISTOR	4.3kΩ ,1/10W	R75	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10
R15	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R76	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10
R16	QRSA08J-101YN	RESISTOR	100Ω , $1/10W$	R77	ORSA08J-331YN	RESISTOR	330 Ω ,1 / 10
R17	QRSA08J-124YN	RESISTOR	120kΩ,1/10W	R78	QRSA08J-331YN	RESISTOR	330 Ω ,1 / 10
	QRSA08J-124YN	RESISTOR	120kΩ,1/10W	R79	QRSA08J-433YN	RESISTOR	43kΩ,1/10
R18	UNSAU03-124114	RESISTOR	120864,17 1044	R80	QRSA08J-433YN	RESISTOR	43kΩ,1/10
R21	QRSA08J-822YN	RESISTOR	8.2kΩ ,1/10W	1100	G11071000 400 111	TLOID! OIL	401.52,17 10
R22	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10W	R81	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10
R23	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R82	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10
R24	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R83	QRSA08J-123YN	RESISTOR	$12k\Omega$, $1/10$
	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R84	QRSA08J-123YN	RESISTOR	12kΩ,1/10
R25			10kΩ ,1 / 10W	R85	QRSA08J-473YN	RESISTOR	47kΩ,1/10
R26	QRSA08J-103YN	RESISTOR					
R27	QRSA08J-473YN	RESISTOR	47kΩ ,1 / 10W	R86	QRSA08J-473YN	RESISTOR	47kΩ,1/10
R28	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R87	QRSA08J-564YN	RESISTOR	560kΩ,1/10
R29	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R88	QRSA08J-564YN	RESISTOR	560kΩ,1/10
R30	QRSA08J-473YN	RESISTOR	$47k\Omega$,1/10W	R89	QRSA08J-473YN	RESISTOR	47kΩ,1/10
D04	OD0400 I 472VN	RESISTOR	47kΩ,1/10W	R90	QRSA08J-473YN	RESISTOR	$47k\Omega$,1/10
R31	QRSA08J-473YN QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R91	QRSA08J-473YN	RESISTOR	47kΩ,1/10
R32		RESISTOR	47kΩ,1/10W	R92	QRSA08J-473YN	RESISTOR	
R33	QRSA08J-473YN		47kΩ,1/10W		QRSA08J-472YN		47kΩ,1/10'
R34	QRSA08J-473YN	RESISTOR		R93		RESISTOR	4.7kΩ,1/10
R35	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W	R94	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10
R36	QRSA08J-332YN	RESISTOR	3.3kΩ ,1/10W	R99	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10
R37	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R100	QRSA08J-272YN	RESISTOR	2.7 k Ω , $1/10$
R38	QRSA08J-103YN	RESISTOR	10kΩ,1/10W				
R39	QRSA08J-562YN	RESISTOR	$5.6k\Omega$, $1/10W$	R101	QRSA08J-123YN	RESISTOR	$12k\Omega$, $1/10$
R40	QRSA08J-562YN	RESISTOR	$5.6k\Omega$, $1/10W$	R102	QRSA08J-123YN	RESISTOR	$12k \Omega , 1/10$
				R103	QRSA08J-562YN	RESISTOR	5.6k Ω,1/10
R41	QRSA08J-183YN	RESISTOR	18kΩ ,1 ∕ 10W	R104	QRSA08J-562YN	RESISTOR	5.6k Ω ,1/10
R42	QRSA08J-183YN	RESISTOR	18kΩ ,1 / 10W	R105	QRSA08J-183YN	RESISTOR	18k Ω ,1/10
R43	ORSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R106	QRSA08J-183YN	RESISTOR	18k Ω ,1/10
R44	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R107	QRSA08J-271YN	RESISTOR	271 Ω ,1/10
R45	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R108	QRSA08J-271YN	RESISTOR	271 Ω ,1/10
R46	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R109	QRSA08J-103YN	RESISTOR	10t Ω,1/10
R47	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R110	QRSA08J-103YN	RESISTOR	10t Ω,1/10
R48	QRSA08J-103YN	RESISTOR	10kΩ,1/10W				10(45)17 10
R49	QRSA08J-105YN	RESISTOR	1MΩ,1/10W	R111	QRSA08J-0R0Y	RESISTOR	(Ω,1/10
R50	QRSA08J-105YN	RESISTOR	1MΩ,1/10W	R112	QRSA08J-0R0Y	RESISTOR	(Ω,1/10
Line	CHOMOD-100 1 M	TLDIOT OT	110164 ,17 1011	R115	QRSA08J-183YN	RESISTOR	18 Ω ,1 / 10
DE4	OD0400 I 403VN	DECICTOR	10kO 1 /10W				
R51	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R116	QRSA08J-183YN	RESISTOR	18 Ω ,1/10
R52	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R117	QRSA08J-562YN	RESISTOR	5.6 Ω,1/10
R53	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R118	QRSA08J-562YN	RESISTOR	5.61Ω , $1/10$
R54	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R119	QRSA08J-223YN	RESISTOR	221 €Ω,1/10
R55	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W				
R56	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R121	QRSA08J-153YN	RESISTOR	151≰Ω,1∕10
R57	QRSA08J-473YN	RESISTOR	47kΩ ,1/10W	R122	QRSA08J-153YN	RESISTOR	15 ≰Ω,1/10
R58	QRSA08J-473YN	RESISTOR	47kΩ ,1/10W	R123	QRSA08J-102YN	RESISTOR	1150,1/10
	QRSA08J-202YN	RESISTOR	2kΩ,1/10W	R124	QRSA08J-102YN	RESISTOR	1152,1/10
R59							
R59 R60	QRSA08J-202YN	RESISTOR	2kΩ ,1/10W	R126	QRSA08J-472YN	RESISTOR	4.7152.1/10

#∆	REF No.	PART No.	PART NAME, D	ESCRIPTION	#△REF No.	PART No.	PART NAME,	DESCRIPTION
	R128	QRSA08J-123YN	RESISTOR	12kΩ,1/10W	R262	QRSA08J-273YN	RESISTOR	27kΩ,1/10V
	R130	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R263	QRSA08J-273YN	RESISTOR	27kΩ,1/10V
9					R264	QRSA08J-123YN	RESISTOR	12kΩ,1/10V
	R201	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R265	QRSA08J-123YN	RESISTOR	12kΩ,1/10V
	R202	QRSAD8J-681YN	RESISTOR	680 Ω ,1/10W	R267	QRSA08J-2R2YN	RESISTOR	2.2Ω,1/10V
	R203	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10W$	R268	QRSA08J-2R2YN	RESISTOR	2,2Ω,1/10V
	R204	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10W$	R269	QRSA08J-273YN	RESISTOR	27kΩ,1/10V
	R205	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W	R270	QRSA08J-273YN	RESISTOR	27kΩ,1/10V
	R206	QRSA08J-332YN	RESISTOR	3.3kΩ ,1/10W				
	R207	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R271	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10V
	R207	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R272	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10V
	R209	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10W	R273	QRSA08J-561YN	RESISTOR	560Ω,1/10V
	R210	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10W	R274	QRSA08J-561YN	RESISTOR	560Ω,1/10V
	M2 I U	QN3A003-102114	HEDIOTOT	1,010,00	R275	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10\
	D04.0	OD700E4 100	FUSIBLE RESISTO	R 18Ω	R276	QRSA08J-122YN	RESISTOR	1.2kΩ ,1 / 10\
Λ	R213	QRZ0054-180	FUSIBLE RESISTO		R277	QRSA08J-563YN	RESISTOR	56kΩ,1/10\
Λ	R214	QRZ0054-180		220 Ω ,1 / 10W	R278	QRSA08J-563YN	RESISTOR	56kΩ,1/10\
	R215	QRSA08J-221YN	RESISTOR					8.2kΩ,1/10\
	R216	QRSA08J-221YN	RESISTOR	220 Ω ,1 / 10W	R279	QRSA08J-822YN	RESISTOR	
	R217	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W	R280	QRSA08J-822YN	RESISTOR	$8.2k\Omega$, $1/10$
	R218	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W		0004001000000	TI I FINE HOTOD	
	R219	QRSA08J-392YN	RESISTOR	$3.9k\Omega$, $1/10W$	R281	QRSA08J-2R2YN	THERMISTOR	
	R220	QRSA08J-392YN	RESISTOR	$3.9 k\Omega$, $1/10W$	R282	QRSA08J-2R2YN	THERMISTOR	
					R283	QRSA08J-181YN	RESISTOR	180 Ω .1 / 10V
	R221	QRSA08J-223YN	RESISTOR	$22k\Omega$, $1/10W$	R284	QRSA08J-181YN	RESISTOR	180 Ω ,1 / 10
	R222	QRSA08J-223YN	RESISTOR	$22k\Omega$,1/10W	R285	QRSA08J-2R2YN	RESISTOR	2.2 \Omega ,1 \/ 10
	R223	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R286	QRSA08J-2R2YN	RESISTOR	$2.2 \Omega , 1 / 10$
	R224	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R287	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10°
	R225	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R288	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/10
	R226	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R289	QRSA08J-563YN	RESISTOR	56kΩ,1/10
	R227	QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	R290	QRSA08J-563YN	RESISTOR	56kΩ,1/10\
	R228	QRSA08J-221YN	RESISTOR	220 Ω ,1 / 10W				
	R229	QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	R291	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10
	R230	QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	R292	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10\
	R231	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R301	QRSA08J-823YN	RESISTOR	82kΩ,1∕10\
	R232	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R302	QRSA08J-823YN	RESISTOR	82kΩ,1/10
	R233	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R303	QRSA08J-823YN	RESISTOR	82kΩ,1/10
	R234	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R304	QRSA08J-184YN	RESISTOR	180kΩ,1/10
Δ	R235	QRD161J-1R0	FUSIBLE RESISTO		R305	QRSA08J-563YN	RESISTOR	56kΩ,1/10\
Δ	R236	QRD161J-1R0	FUSIBLE RESISTO		R306	QRSA08J-333YN	RESISTOR	33kΩ,1/10
Δ	R237	QRD161J-1R0	FUSIBLE RESISTO		R307	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10
	R238	QRD161J-1R0	FUSIBLE RESISTO		R308	QRSA08J-685YN	RESISTOR	6.8MΩ,1/10V
Δ	R239	QRZ0054-120	FUSIBLE RESISTO		R309	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10
lacktriangle	R240	QRZ0054-120	FUSIBLE RESISTO		R310	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
	R245	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R311	QRSA08J-331YN	RESISTOR	330Ω,1∕10\
	R246	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R312	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
	R247	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R315	NRVA62D-823N	RESISTOR	82kΩ,1/16\
	R248	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R316	QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10\
	R249	QRSA08J-2R2YN	RESISTOR	2.2Ω,1/10W	R317	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10\
	R250	QRSA08J-2R2YN	RESISTOR	2.2Ω,1/10W	R318	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10\
	11200	21101100001110111			R319	QRSA08J-184YN	RESISTOR	180kΩ,1/10\
	D1E1	QRSA08J-824YN	RESISTOR	820kΩ,1/10W	R320	QRSA08J-103YN	RESISTOR	10kΩ,1/10\
	R251	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10W	11020	S. 100 100 100 11		14 na ,1 / 10
	R252	QRSA08J-912YN	RESISTOR	9.1kΩ,1/10W	R321	QRSA08J-105YN	RESISTOR	1MΩ,1/10
	R253			8.2kΩ,1/10W	R322	QRSA08J-474YN	RESISTOR	470kΩ,1/10\
	R254	QRSA08J-822YN	RESISTOR					
	R255	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	R323	QRSA08J-474YN	RESISTOR	470kΩ,1/10
	R256	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	R324	QRSA08J-823YN	RESISTOR	82kΩ ,1 / 10 ¹
	R257	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R325	QRSA08J-823YN	RESISTOR	82kΩ,1/10
	R258	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	R326	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10\
						CIDEAGO LATAVA	DECKTAR	
	R259	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W	R327	QRSA08J-474YN	RESISTOR	470kΩ,1/10V
		QRSA08J-682YN QRSA08J-682YN	RESISTOR RESISTOR	$6.8k\Omega$, $1/10W$ $6.8k\Omega$, $1/10W$	R327 R328 R329	QRSA08J-103YN QRSA08J-104YN	RESISTOR RESISTOR	470kΩ,1/10V 10kΩ,1/10V 100kΩ,1/10V

# /	REF No	PART No.	PART NAME, DE	SCRIPTION	#≜REF No	. PART No.	PART NAME, DES	CRIPTION
π/			RESISTOR	6.8kΩ ,1/10W	C43	QETC1CM-226ZE	E CAPACITOR	22 μ F,16V
	R330	QRSA08J-682YN	NEOIOI UN	O'OV77'I\ IOAA	C44	QETC1CM-226ZE	E CAPACITOR	22 μ F,16 V 22 μ F,16 V
			DECICTOR	22kΩ ,1/10W	C45	QETC1CM-226ZE	E CAPACITOR	22 μ F,16 V 22 μ F,16 V
	R331	QRSA08J-223YN	RESISTOR					22 μ F,16 V 22 μ F,16 V
	R332	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	C46	QETC1CM-226ZE	E CAPACITOR	
	R333	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	C47	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
	R334	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C48	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
	R335	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C49	QRD161J-0R0	RESISTOR	0Ω,1/6W
	R336	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W	C50	QRD161J-0R0	RESISTOR	0Ω , $1/6W$
	R337	QRSA08J-750YN	RESISTOR	75 Ω ,1/10W				
	R338	QRSA08J-103YN	RESISTOR	$10k\Omega$, $1/10W$	C51	QFN31HJ-273	M CAPACITOR	0.027 μ F,50V
					C52	QFN31HJ-273	M CAPACITOR	0.027 μ F,50V
	R341	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	C53	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
	R342	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C54	QETC1 CM-476ZE	E CAPACITOR	47 μ F,16V
	R343	QRSA08J-153YN	RESISTOR	15kΩ,1/10W	C55	QETC1HM-475ZE	E CAPACITOR	4.7 μ F,50V
	R344	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W	C56	QETC1HM-475ZE	E CAPACITOR	4.7 μ F,50V
	R345	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	C57	QFN31HJ-473	E CAPACITOR	0.047 μ F,50V
	D949	QNOA000 472 114	1100101011		C58	QFN31HJ-473	E CAPACITOR	0.047 μ F,50V
					C59	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
		00/4411/402	CADACITOD	0.01 μ F,50V	C60	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
	C1	QCYA1HK-103	CAPACITOR		000	ALIOIOW-4107E	E UNITAGE ON	-17 μ F,10 V
	C2	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	001	QETC1 CM-336ZE	E CAPACITOR	22 5 461
	C3	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	C61	***************************************		33 μ F,16 V
	C4	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	C62	QETC1CM-336ZE	E CAPACITOR	33 μ F,16 V
	C5	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C63	QETC1CM-106ZE	E CAPACITOR	10 μ F,16 V
	C6	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	C64	QETC1CM-106ZE	E CAPACITOR	10 μ F,16 V
	C7	QENC1 CM-1 06	NP E CAPACITOR	10 μ F,16V	C65	QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V
	C9	QENC1CM-106	NP E CAPACITOR	10 μ F,16V	C66	QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V
	C10	QENC1CM-106	NP E CAPACITOR	10 μ F,16V	C67	QFN31HJ-103	M CAPACITOR	$0.01\mu\text{F,50V}$
					C68	QFN31HJ-103	M CAPACITOR	0.01μ F,50V
	C11	QCSA1HJ-122	CAPACITOR	0.0012 µ F,50V	C69	QETC1 HM-105ZE	E CAPACITOR	$1 \mu F,50 V$
	C12	QCSA1HJ-122	CAPACITOR	0.0012 µ F,50V	C70	QETC1 HM-105ZE	E CAPACITOR	1μ F,50V
	C13	QEBA1EM-475	E CAPACITOR	4.7 μ F,25V				
	C14	QEBA1EM-475	E CAPACITOR	4.7 μ F,25V	C71	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
	C15	QFN31HJ-273	M CAPACITOR	0.027 μ F,50V	C72	QETC1CM-107ZE	E CAPACITOR	100 μ F,16 V
		QFN31HJ-273	M CAPACITOR	0.027 μ F,50V	C73	QETC1HM-105ZE	E CAPACITOR	1 μ F,50V
	C16 C17	QCTA1CH-101	CAPACITOR	100pF,16V	C74	QETC1 HM-105ZE	E CAPACITOR	1 μ F,50 V
			CAPACITOR	100pF,16V	C75	QETC1CM-107ZE	E CAPACITOR	1 00 μ F,16 V
	C18	OCTA1CH-101	E CAPACITOR	100 μ F,16V	C76	QETC1CM-107ZE	E CAPACITOR	1 00 μ F,16 V
	C19	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	C77	QETC1CM-106ZE	E CAPACITOR	10 μ F,16V
	C20	QETC1CM-107ZE	E CAPACITOR	100 µ F,10 V	C78	QETC1CM-106ZE	E CAPACITOR	10 μ F,16 V
			E CARACITOR	47 5 461/	l .		TANTAL CAPACITOR	
	C21	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	C79	NEE21VM-684RY		
	C22	QETC1CM-476ZE		47 μ F,16V	C80	NEE21VM-684RY	TANTAL CAPACITOR	0.68 μ F,35V
	C23	OCTA1CH-331	CAPACITOR	330pF,16V				
	C24	QCTA1CH-331	CAPACITOR	330pF,16V	C81	QENC1CM-106	NP E CAPACITOR	10 μ F,16 V
	C25	QCTA1CH-331	CAPACITOR	330pF,16V	C82	QENC1CM-106	NP E CAPACITOR	10 μ F,16 V
	C26	QCTA1CH-331	CAPACITOR	330pF,16V	C83	QETC1CM-476ZE	E CAPACITOR	4 7 μ F, 16 V
	C27	QENC1CM-106	NP E CAPACITOR	10 μ F,16V	C84	QETC1CM-476ZE	E CAPACITOR	4 7 μ F,16 V
	C28	QENC1 CM-106	NP E CAPACITOR	10 μ F,16V	C85	QETC1CM-226ZE	E CAPACITOR	22 μ F,16 V
	C29	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	C86	QETC1 CM-226ZE	E CAPACITOR	22 μ F,16 V
	C30	QETC1CM-476ZE		47 μ F,16V	C87	QETC1 EM-475ZE	E CAPACITOR	4.7 μ F,25 V
					C88	QETC1 EM-475ZE	E CAPACITOR	4.7 μ F,25 V
	C31	QETC1CM-226ZE	E CAPACITOR	22 μ F,16V	C89	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
	C32	QETC1CM-226ZE		22 μ F,16V	C90	QENC1CM-106	NP E CAPACITOR	10 μ F,16 V
	C33	QETC1EM-475ZE		4.7 μ F,25V				2 P 1 71 4 4
				4.7 μ F,25V	C91	QCTA1CH-101	CAPACITOR	100pF,16V
	C34	QETC1 EM-475ZE		0.0068 μ F,50V	C92	QCTA1CH-101	CAPACITOR	100pF,16V
	C35	QFN31HJ-682	M CAPACITOR			QETC1 HM-224ZE		1.22 µ F,50V
	C36	QFN31HJ-682	M CAPACITOR	0.0068 μ F,50V	C95		E CAPACITOR	
	C37	QENC1CM-106	NP E CAPACITOR	10 μ F,16V	C96	QETC1HM-224ZE	E CAPACITOR	1.22 µ F,50 V
	C38	QENC1CM-106	NP E CAPACITOR	10 μ F,16V	C97	QFN31HJ-123	M CAPACITOR	00 12 μ F,50 V
	C39	QCTA1CH-101	CAPACITOR	100 pF,16V	C98	QFN31HJ-123	M CAPACITOR	0.0 12 μ F,50 V
	C40	OCTA1CH-101	CAPACITOR	100pF,16V	C99	QFN31HJ-273	M CAPACITOR	00 27 μ F,50 V
					C100	QFN31HJ-273	M CAPACITOR	0027 μ F,50V
	C41	QCTA1CH-101	CAPACITOR	100pF,16V				
	C42		CAPACITOR	100pF,16V	C101	QENC1CM-106	NP E CAPACITOR	10 µ F,16 V

	PART No.	PART NAME, DE				. PART No.	PART NAME, DESC	
C102	QENC1 CM-106	NP E CAPACITOR	10 μ F,16V		C243	QCYA1HK-102	CAPACITOR	0.001 μ F,50
C105	QCF81 CZ-105	CAPACITOR	1 μ F,16V		C244	QCYA1HK-102	CAPACITOR	0.001 μ F,50
C106	QCF81 CZ-105	CAPACITOR	1 μ F,16V					
C109	QETC1 CM-106ZE	E CAPACITOR	10 μ F,16V		C301	QFN31HJ-153	M CAPACITOR	0.015 μ F,50 ¹
C110	QETC1 CM-106ZE	E CAPACITOR	10 μ F,16V		C302	QETC1 AM-227	E CAPACITOR	220 μ F,10
0.,0	22101011110			1	C303	QENC1CM-106	NP E CAPACITOR	10 μ F,16
C111	QCF81 CZ-105	CAPACITOR	1 μ F,16V	1	C304	QFN31HJ-333	M CAPACITOR	0.033 μ F,50
C112	QCF81 CZ-105	CAPACITOR	1 μ F,16V	1	C305	QCSA1HJ-122	CAPACITOR	0.0012 μ F,50
C113	QCF81 CZ-105	CAPACITOR	1 μ F,16V		C306	QCSA1HJ-122		0.0012 µ F,50
C114	QCF81 CZ-105	CAPACITOR	1 μ F,16V		C307	QFN31HJ-103	M CAPACITOR	0.01 μ F,50°
C115	QENC1 CM-106	NP E CAPACITOR	10 μ F,16V		C308	QCTA1CH-270	CAPACITOR	27pF,16
C116	QENC1 CM-106	NP E CAPACITOR	10 μ F,16V		C309	QETC1 EM-475	E CAPACITOR	4.7 μ F,25
C117	QENC1 CM-106	NP E CAPACITOR	10 μ F,16V		C310	QENC1CM-106	NP E CAPACITOR	10 μ F,16
C118	QENC1 CM-106	NP E CAPACITOR	10 μ F,16V					
C119	QCSA1 HJ-821	CAPACITOR	820pF;50V		C311	QETC1CM-226	E CAPACITOR	22 μ F,16
C120	QCSA1 HJ-821	CAPACITOR	820pF,50V		C312	QETC1CM-476	E CAPACITOR	47 μ F,16
0.120					C313	QETC1 EM-475	E CAPACITOR	4.7 μ F,25
C121	QCTA1 CH-101	CAPACITOR	100pF,16V		C314	QETC1 EM-475	E CAPACITOR	4.7 μ F,25
C122	QCTA1 CH-101	CAPACITOR	100pF,16V		C315	QETC1CM-106	E CAPACITOR	10 μ F,16
C123	QCYA1HK-392	CAPACITOR	0.0039 μ F,50V		C316	QEE81EM-105	NP E CAPACITOR	1 μ F,25
C124	QCYA1HK-392	CAPACITOR	0.0039 μ F,50V		C317	QETC1CM-476	E CAPACITOR	47 μ F,16
C126	QCYA1HK-473	CAPACITOR	0.047 μ F,50V		C318	QENC1EM-475	NP E CAPACITOR	4.7 μ F,25°
					C319	QETC1CM-106	E CAPACITOR	10 μ F,16
C201	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		C320	QENC1EM-475	NP E CAPACITOR	4.7 μ F,25
C202	QCYA1HK-103	CAPACITOR	0.01 μ F,50V					
C203	QETC1 CM-476	E CAPACITOR	47 μ F,16V		C321	QETC1CM-227	E CAPACITOR	220 µ F,16
C204	QETC1 CM-476	E CAPACITOR	47 μ F,16V		C322	QETC1CM-476	E CAPACITOR	47 μ F,16
C205	QETC1 CM-476	E CAPACITOR	47 μ F,16V		C326	QETC1CM-106	E CAPACITOR	10 μ F,16
C206	QETC1 CM-476	E CAPACITOR	47 μ F,16V		C328	QETC1CM-476	E CAPACITOR	47 μ F,16
C207	QFP32AJ-102	PP CAPACITOR	0.001 μ F,100V		C329	QCTA1CH-101	CAPACITOR	100pF,16
C208	QFP32 AJ-102	PP CAPACITOR	0.001 μ F,100V					
C209	QCT25 CH-181	CAPACITOR	180pF					
C210	QCT25 CH-181	CAPACITOR	180pF		L1	PGZ00917-822	COIL	
					L2	PGZ00917-822	COIL	
C211	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		L3	PGZ00917-822	COIL	
C212	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		L4	PGZ00917-822	COIL	
C213	QCTA1CH-221	CAPACITOR	220pF,16V		L5	PGZ00917-472	COIL	
C214	QCTA1CH-221	CAPACITOR	220pF,16V		L6	PGZ00917-472	COIL	
C215	QCTA1CH-221	CAPACITOR	220pF,16V					
C216	QCTA1CH-221	CAPACITOR	220pF,16V		L201	PU48530-3R9K	COIL	3.9μ
C217	QFP32AJ-123	PP CAPACITOR	0.012 μ F,100V		L203	PU48530-330J	COIL	33 μ Ι
C218	QFP32 AJ-123	PP CAPACITOR	0.012 μ F,100V		L204	PU48530-330J	COIL	33μ
C219	QETC1CM-476	E CAPACITOR	47 μ F,16V		1.004			
C220	QETC1CM-476	E CAPACITOR	47 μ F,16V		L301	PGZ02044-222K	COIL	
C221	QCYA1EK-103	CAPACITOR	0.01 μ F,25V					
C222	QCYA1EK-103	CAPACITOR	0.01 μ F,25V		LPF1	PU60206	LOW PASS FILTER	
C223	QCYA1EK-103	CAPACITOR	0.01 μ F,25V		LPF2	PU60206	LOW PASS FILTER	
C224	QCYA1EK-103	CAPACITOR	0.01 μ F,25V					
C227	QCYA1HK-223	CAPACITOR	0.022 μ F,50V					
C228	QCTA1CH-271	CAPACITOR	270pF,16V		RY1	PU55260	RELAY	
C229	QCTA1CH-271	CAPACITOR	270pF,16V	l				
C230	QCTA1CH-271	CAPACITOR	270pF,16V					
				Δ	TH1	ERT-D2FGL103S	THERMISTOR	
C231	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		TH2	ERT-D2FGL103S	THERMISTOR	
C232	QETC1CM-476	E CAPACITOR	47 μ F,16V		TH3	ERT-D2FHL462S	THERMISTOR	
C233	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	1	TH4	ERT-D2FHL462S	THERMISTOR	
C234	QCYA1HK-103	CAPACITOR	0.01 μ F,50V					
C235	QETC1CM-476	E CAPACITOR	47 μ F,16V		TH201	ERT-D2FHL102S	THERMISTOR	
C236	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		TH202	ERT-D2FHL102S	THERMISTOR	
C237	QETC1CM-476	E CAPACITOR	47 μ F,16V					
	QETC1CM-226	E CAPACITOR	22 μ F,16V	ı				
C239 C240	QETC1CM-226	E CAPACITOR	22 μ F,16V	Δ	T201	PGZ01859	TRANS, ×2(T201,T202	

KEF NO.	PART No.	PART NAME, [DESCRIPTION	#▲REF No.	PART No.	PART NAME,	DESCRIPTION
TP1	SQMX001-001Z	TEST PIN, ×10		R18	QRSA08J-101YN	RESISTOR	100Ω,1/10
				R19	QRSA08J-123YN	RESISTOR	12kΩ,1/1
				R20	QRSA08J-123YN	RESISTOR	12kΩ ,1/1
CN1	PU59555-3	CONNECTOR					
CN2	PU59555-3	CONNECTOR		R23	QRSA08J-823YN	RESISTOR	82kΩ ,1/1
CN3	PU59973-18	CONNECTOR		R24	QRSA08J-823YN	RESISTOR	82kΩ ,1/1
CN4	PU59973-30	CONNECTOR		R25	QRSA08J-823YN	RESISTOR	82kΩ,1/1
CN5	PU59973-30	CONNECTOR		R26	QRSA08J-823YN	RESISTOR	82kΩ,1/1
				R29	QRSA08J-473YN	RESISTOR	47kΩ ,1 / 1l
CN201	PU59555-4	CONNECTOR		R30	QRSA08J-473YN	RESISTOR	47kΩ,1/1
				R31	QRSA08J-473YN	RESISTOR	47kΩ,1/1
				R32	QRSA08J-473YN	RESISTOR	47kΩ ,1/1
AL ALIE	NO POARD A	SSEMBLY, BR	SE00 < 22 >	R33	QRSA08J-473YN	RESISTOR	$47k\Omega$,1/1
N. AUI	DIO BOARD A	ASSEMBLI, DA	-3500 \22/	R34	QRSA08J-473YN	RESISTOR	47kΩ,1/1
				R35	QRSA08J-473YN	RESISTOR	47kΩ,1/1
				R36	QRSA08J-473YN	RESISTOR	47kΩ,1/1
PWBA	PRK10140B-07	NORMAL AUDIO	BOARD ASSY	R37	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/1
				R38	QRSA08J-272YN	RESISTOR	$2.7k\Omega$, $1/1$
				R39	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/1$
IC1	M5220P	IC		R40	QRSA08J-102YN	RESISTOR	1kΩ,1/1
IC2	M5220P	IC					
IC3	M51132L	IC		R41	QRSA08J-202YN	RESISTOR	$2k\Omega$,1/1
IC4	M51132L	IC		R42	QRSA08J-202YN	RESISTOR	2kΩ,1/1
IC5	CXA1101P	iC		R43	QRSA08J-122YN	RESISTOR	1.2kΩ,1/1
100	CAMITUTE	10		R44	QRSA08J-122YN	RESISTOR	1.2kΩ,1/1
10201	TC4066BP	IC		R45	QRSA08J-433YN	RESISTOR	43kΩ,1/1
IC301		IC		R46	QRSA08J-823YN		
IC302	M5218AP	IC IC				RESISTOR	82kΩ,1/1
IC303	UPC393C	ic		R47 R48	QRSA08J-823YN QRSA08J-222YN	RESISTOR RESISTOR	82kΩ,1/1 2.2kΩ,1/1
01	DTC134EV	TRANSISTOR		R51	QRSA08J-103YN	RESISTOR	10kΩ,1/1
O2	DTC124EK DTC323TK	TRANSISTOR		R55	QRSA08J-124YN	RESISTOR	120kΩ,1/1
Q4		TRANSISTOR		R56			
Q9	DTC323TK				QRSA08J-124YN	RESISTOR	120kΩ,1/1
Q10	DTC323TK	TRANSISTOR		R57	QRSA08J-123YN	RESISTOR	12kΩ,1/1
				R58	QRSA08J-123YN	RESISTOR	$12k\Omega$, $1/1$
Q11	2SD973AR	TRANSISTOR		R59	QRSA08J-104YN	RESISTOR	$100k\Omega$, $1/1$
Q12	2SD973AR	TRANSISTOR		R60	QRSA08J-104YN	RESISTOR	$100k\Omega$, $1/1$
Q13	DTA124EK	TRANSISTOR					
Q14	DTA124EK	TRANSISTOR		R61	QRSA08J-222YN	RESISTOR	2.2 k Ω , $1/1$
Q15	DTC124EK	TRANSISTOR		R63	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/1$
Q16	DTC124EK	TRANSISTOR		R64	QRSA08J-102YN	RESISTOR	$1k\Omega,1/1$
				R65	QRSA08J-102YN	RESISTOR	1kΩ,1/1
Q301	2SD973AR	TRANSISTOR		R66	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/1$
Q302	2SC2412K	TRANSISTOR		R301	QRSA08J-823YN	DESISTOR	82kΩ,1/1
				R302		RESISTOR	82k Ω ,1/1 82k Ω ,1/1
	0 - 0 1 0 0 1 0 7 0 1 / 1 1	D FOICE OD	631.0 4 /4614		QRSA08J-823YN	RESISTOR	
R1	QRSA08J-273YN	RESISTOR	27kΩ,1/10W	R303	QRSA08J-823YN	RESISTOR	82k Ω ,1/1
R2	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R304	QRSA08J-184YN	RESISTOR	180k Ω ,1/1
R3	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	R305	QRSA08J-563YN	RESISTOR	56k Ω .1/1
R4	QRSA08J-473YN	RESISTOR	$47k\Omega$,1/10W	R306	QRSA08J-333YN	RESISTOR	$33k \Omega .1/1$
R5	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R307	QRSA08J-823YN	RESISTOR	82k Ω .1/1
R6	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R308	QRSA08J-122YN	RESISTOR	$1.2k \Omega .1/1$
R9	QRSA08J-155YN	RESISTOR	$1.5M\Omega$, $1/10W$	R309	QRSA08J-685YN	RESISTOR	6.8M Ω ,1/1
R10	QRSA08J-155YN	RESISTOR	1.5M Ω ,1/10W	R310	QRSA08J-101YN	RESISTOR	100 Ω,1/1
R11	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R311	QRSA08J-473YN	RESISTOR	47kΩ.1/1
R12	QRSA08J-0R0Y	RESISTOR	0Ω ,1/10W	R312	QRSA08J-103YN	RESISTOR	10kΩ,1/1
R13	QRSA08J-432YN	RESISTOR	4.3kΩ ,1/10W	R313	QRSA08J-182YN	RESISTOR	$1.8 \mathrm{k}\Omega$, $1/1$
R14	QRSA08J-432YN	RESISTOR	4.3kΩ,1/10W	R314	QRSA08J-472YN	RESISTOR	4.7kΩ,1/1
R15	QRSA08J-124YN	RESISTOR	120kΩ,1/10W	R315	QRSA08J-472YN	RESISTOR	4.7kΩ,1/1
	QRSA08J-124YN	RESISTOR	120kΩ,1/10W	R316	QRSA08J-184YN	RESISTOR	180kΩ.1/1
R16	I DESAUX L. I ZA Y IN						

#≜REF No.	PART No.	PART NAME, DE	SCRIPTION	#≜REF No.	PART No.	PART NAME, DE	SCRIPTION
R318	QRSA08J-474YN	RESISTOR	470kΩ,1/10W	C44	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
R319	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C45	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R320	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	C46	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
				C47	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
R321	QRSA08J-682YN	RESISTOR	6.8kQ,1/10W	C48	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
R322	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	C49	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R323	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	C50	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
R324	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W				
R325	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C53	QENC1CM-106ZE	E CAPACITOR	10 μ F,16V
R326	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C54	QENC1CM-106ZE	E CAPACITOR	10 μ F,16V
R327	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W	C55	QETC1CM-106	E CAPACITOR	10 μ F,16V
R328	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C56	QETC1CM-106	E CAPACITOR	10 μ F,16V
R329	QRSA08J-750YN	RESISTOR	75Ω,1/10W	C57	QETC1CM-106	E CAPACITOR	10 μ F,16V
R330	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	C58	QETC1CM-106	E CAPACITOR	10 μ F,16V
				C59	QETC1CM-476	E CAPACITOR	47 μ F,16V
R332	QRSA08J-104YN	RESISTOR	100kΩ,1/10W				
,11002	G. 101.000			C61	QETC1CM-107	E CAPACITOR	100 μ F,16V
				C62	QETC1CM-107	E CAPACITOR	100 μ F,16V
C 1	QCSA1 HJ-122	CAPACITOR	0.0012 μ F,50V	C63	QCTA1CH-101	CAPACITOR	100pF,16V
C2	QCSA1HJ-122	CAPACITOR	0.0012 μ F,50V	C64	QCTA1CH-101	CAPACITOR	100pF,16V
C5	QEBC1 HM-105	E CAPACITOR	1 μ F,50V				•
C6	QEBC1HM-105	E CAPACITOR	1 μ F,50V	C301	QFN31HJ-153	M CAPACITOR	0.015 μ F,50V
C7	QCTA1CH-101	CAPACITOR	100pF,16V	C302	QETC1CM-227ZE	E CAPACITOR	220 μ F,16V
C8	QCTA1CH-101	CAPACITOR	100pF,16V	C303	QEBC1 EM-475	E CAPACITOR	4.7 μ F,25V
C9	QFN31HJ-273	M CAPACITOR	0.027 μ F,50V	C304	QENC1CM-106	NP E CAPACITOR	10 μ F,16V
	QFN31HJ-273	M CAPACITOR	0.027 μ F,50V	C305	QETC1CM-226	E CAPACITOR	22 μ F,16V
C10	QFN3 1 HJ-273	IN OUL VOLLOLL	0.027 μ 1 ,00 τ	C306	QENC1EM-475	NP E CAPACITOR	4.7 μ F,25V
011	QETC1 CM-107ZE	E CAPACITOR	100 μ F,16V	C307	QETC1CM-106	E CAPACITOR	10 μ F,16V
C11		E CAPACITOR	100 μ F,16V	C308	QENC1EM-475	NP E CAPACITOR	4.7 μ F,25V
C12	QETC1 CM-107ZE	E CAPACITOR	47 μ F,16V	C309	QETC1CM-227	E CAPACITOR	220 μ F,16V
C13	QETC1 CM-476ZE	E CAPACITOR	47 μ F,16V	C310	QETC1CM-107	E CAPACITOR	100 μ F,16V
C14	QETC1CM-476ZE		10 μ F,16V	Care	QLICION 107	LUAFAUITUR	100 μ 1 ,10 γ
C15	QENC1CM-106	NP E CAPACITOR	10 μ F,16V	C311	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C16	QENC1CM-106	NP E CAPACITOR	0.01 μ F,50V	C312	QETC1CM-107	E CAPACITOR	100 μ F,16V
C17	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C312	QETC1CM-476	E CAPACITOR	47 μ F,16V
C18	QCYA1HK-103	CAPACITOR	100 μ F,16V	C314	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C19	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	C315	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
C20	QETC1CM-107ZE	E CAPACITOR	100 μ Γ,10 Ψ	C316	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
	0==04.0M.4363E	E CARACITOR	47 μ F,16V	C317	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V
C21	QETC1CM-476ZE	E CAPACITOR	47 μ F,16V	C318	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V
C22	QETC1CM-476ZE	E CAPACITOR	22 μ F,16V		QCTA1CH-101	CAPACITOR	100pF,16V
C23	QETC1CM-226ZE		22 μ F,16V	0313	COLUMN	OALAGITON	10001,104
C24	QETC1CM-226ZE						
C25	QETC1 EM-475ZE		4.7 μ F,25V		PU48530-271J	COIL, ×2(L1, L2, L	.301) 270 μ H
C26	QETC1 EM-475ZE		4.7 μ F,25V	L1	PU4003U-2713	OOIL, × 2(LI, L2, L	30() 230 μ Π
C27	QFN31HJ-682	M CAPACITOR	0.0068 μ F,50V				
C28	QFN31HJ-682	M CAPACITOR	0.0068 μ F,50V	LDC1	DUCAGO	LOW DACC FUTED	
C29	QENC1 EM-475	NP E CAPACITOR	4.7 μ F,25V	1	PU60206	LOW PASS FILTER	
C30	QENC1 EM-475	NP E CAPACITOR	4.7 μ F,25V	LPF2	PU60206	LOW PASS FILTER	
C31	QENC1 EM-475ZE		4.7 μ F,25V				
C32	QENC1 EM-475ZE		4.7 μ F,25 V	TH1	ERT-D2FHL462S	THERMISTOR	
C33	QETC1CM-106ZE		10 μ F,16V	TH2	ERT-D2FHL462S	THERMISTOR	
C34	QETC1CM-106ZE		10 μ F,16V				
C35	QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V				
C36	QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V	TP1	SQMX001-001Z	TEST PIN, ×5	
C 37	QETC1 HM-105ZE	E CAPACITOR	1 μ F,50V				
C 38	QETC1HM-105ZE	E CAPACITOR	1 μ F,50V				
C39	NEE21VM-684RY	TANTAL CAPACITO	OR 0.68 μ F,35V	CN1	PU59555-3	CONNECTOR	
C40	NEE21VM-684RY	TANTAL CAPACITO	OR 0.68 μ F,35V	CN2	PU59555-3	CONNECTOR	
				CN4	PU59973-30	CONNECTOR	
C41	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	CN5	PU59973-30	CONNECTOR	
C42	QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
C43	QETC1CM-107ZE	E CAPACITOR	100 μ F,16V	I			

			Q208	2SD601A(Q)	TRANSISTOR	
			-			
VI	O BOARD AS	SEMBLY <23>	Q209	2SD601A(Q)	TRANSISTOR	
/	O BOAILE 710		Q210	DTC144EK	TRANSISTOR	
			0201	00440371/(00)	TDANSICTOD	
		ALC 1 (0 DO ADD ACO) (DD 0000	Q301	2SA1037K(QR)	TRANSISTOR	
PWBA	PRK20267A-01	AV I/O BOARD ASSY, BR-S800	Q302	2SA1037K(QR)	TRANSISTOR	
WBA	PRK20267B-01	AV I/O BOARD ASSY, BR-S500	O303	2SC2412K(RS)	TRANSISTOR	
			Q304	2SA1037K(QR)	TRANSISTOR	
			Q305	2SC2412K(RS)	TRANSISTOR	
C1	TC4053BF	IC .	Q306	2SK621	FE TRANSISTOR	
C2	M5218AFP-XE1	IC	Q307	2SK621	FE TRANSISTOR	
C3	M5201FP	IC	Q308	2SC2412K(RS)	TRANSISTOR	
C4	M5201FP	IC	Q309	2SC2412K(RS)	TRANSISTOR	
C5	TC4052BF	ic	Q310	2SC2412K(RS)	TRANSISTOR	
	M5218AFP-XE1	ic		2002111211(110)		
C6		IC	Q311	2SK621	FE TRANSISTOR	
C7	M50253P				TRANSISTOR	
C8	M5218AFP-XE1	ic	Q312	2SC2412K(RS)		
C9	M5218AFP-XE1	IC	Q313	2SC2412K(RS)	TRANSISTOR	
			Q314	2SC2412K(RS)	TRANSISTOR	
C51	M5201FP	IC, BR-S800	Q315	2SA1037K(QR)	TRANSISTOR	
C52	M5201FP	IC, BR-S800	Q316	2SC2412K(RS)	TRANSISTOR	
C53	M5201 FP	IC, BR-\$800	Q317	2SK621	FE TRANSISTOR	
C54	M5201FP	IC, BR-S800	Q318	2SK621	FE TRANSISTOR	
C55	M5201 FP	IC, BR-S800	Q319	2SC2412K(RS)	TRANSISTOR	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Q320	2SC2412K(RS)	TRANSISTOR	
C201	M52684AP	IC				
C202	M35010-089SP	ic	Q321	2SK621	FE TRANSISTOR	
CZUZ	M33010-0039L	10	Q322	2SC2412K(RS)	TRANSISTOR	
C301	MM1117XF	IC	Q323	2SC2412K(RS)	TRANSISTOR	
C302	AN607P	IC	Q324	2SC2412K(RS)	TRANSISTOR	
C303	SN16913P	IC	Q325	2SC2412K(RS)	TRANSISTOR	
C304	TC74HC4538AF	IC	Q326	DTC144EK	TRANSISTOR	
C305	AN607P	IC	Q327	DTC144EK	TRANSISTOR	
C306	SN16913P	IC				
IC307	UPC319G2	IC				
C308	TC74HC04AF	IC	D1	DAN202K	DIODE	
C309	MM1111XF	IC	D2	DAN202K	DIODE	
			D3	DAN202K	DIODE	
			D4	DAN202K	DIODE	
Q1	2SD973AR	TRANSISTOR	-		5.002	
		TRANSISTOR	D201	DAN202K	DIODE	
02	2SA1037K		D202	DAN202K	DIODE	
Q3	DTA124EK	TRANSISTOR	DZUZ	DANZUZK	DIODE	
04	DTC323TK	TRANSISTOR				•
Q6	DTC323TK	TRANSISTOR	D301	DAN202K	DIODE	
Q6	DTC323TK	TRANSISTOR	D302	DAN202K	DIODE	•
Q 7	DTC323TK	TRANSISTOR	D303	DAN202K	DIODE	
O8	DTC323TK	TRANSISTOR	D304	DAN202K	DIODE	
C29	DTC323TK	TRANSISTOR	D305	DAN202K	DIODE	
Q10	DTC323TK	TRANSISTOR				
011	2SC2412K	TRANSISTOR	R1	QRSA08J-102YN	RESISTOR	1k Ω ,1/
012	2SC2412K	TRANSISTOR	R2	QRSA08J-102YN	RESISTOR	1k Ω ,1/
013	DTA124EK	TRANSISTOR	R3	QRSA08J-102YN	RESISTOR	1kΩ.1/
		TRANSISTOR	R4	QRSA08J-102YN	RESISTOR	$1k\Omega 1/$
Q14	DTC323TK					$1k\Omega /1/1$
Q15	DTC323TK	TRANSISTOR	R5	QRSA08J-102YN	RESISTOR	
			R6	QRSA08J-102YN	RESISTOR	1kΩ.1/
Q201	2SC2778(C)	TRANSISTOR	R7	QRSA08J-102YN	RESISTOR	1kΩ.1/
Q202	2SC2778(C)	TRANSISTOR	R8	QRSA08J-102YN	RESISTOR	1kΩ.1/
Q203	2SA1022(C)	TRANSISTOR	R9	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/$
CIZ U J		TRANSISTOR	R10	QRSA08J-102YN	RESISTOR	1kΩ,1/
	2SA1022(C)	INAMORION				
204		TRANSISTOR				
Q204 Q205 Q206	2SA1022(C) 2SC2778(C) 2SC2778(C)		R11	QRSA08J-823YN	RESISTOR	82k ⊈Ω .1∕1

REF No.	PART No.	PART NAME,	DESCRIPTION	#▲REF No.	PART No.	PART NAME, DES	CRIPTION
R13	QRSAD8J-823YN	RESISTOR	82kΩ ,1/10W	R71	QVPC625-102Z	V RESISTOR	1kΩ
R14	QRSA08J-823YN	RESISTOR	82kΩ ,1/10W	R72	QVPC625-102Z	V RESISTOR	1kΩ
R15	QRSAD8J-682YN	RESISTOR	6.8kΩ ,1/10W	R73	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R16	QRSA08J-682YN	RESISTOR	6.8 k Ω , $1/10$ W	R74	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R17	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W	R75	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R18	QRSA08J-682YN	RESISTOR	$6.8k\Omega$, $1/10W$	R76	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R19	QRSA08J-154YN	RESISTOR	150kΩ,1/10W				
R20	QRSA08J-154YN	RESISTOR	150kΩ,1/10W	R101	QRSA08J-392YN	RESISTOR, BR-S800	3.9 k Ω , $1/10$ W
				R102	QRSA08J-392YN	RESISTOR, BR-S800	3.9 k Ω , $1/10$ W
R21	QRSAD8J-154YN	RESISTOR	150kΩ,1/10W	R103	QRSA08J-392YN	RESISTOR, BR-S800	3.9 k Ω , $1/10$ W
R22	QRSAD8J-154YN	RESISTOR	150kΩ,1/10W	R104	QRSA08J-392YN	RESISTOR, BR-S800	3.9 k Ω , $1/10$ W
R23	QRSA08J-154YN	RESISTOR	150kΩ,1/10W	R105	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$, $1/10W$
R24	QRSA08J-154YN	RESISTOR	150kΩ,1/10W	R106	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$, $1/10W$
R25	QRSAD8J-154YN	RESISTOR	150kΩ,1/10W	R107	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
R26	QRSA08J-154YN	RESISTOR	150kΩ,1/10W	R108	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$, $1/10W$
R27	QRSAD8J-682YN	RESISTOR	6.8kΩ,1/10W	R109	QRSA08J-102YN	RESISTOR, BR-S800	$1k\Omega$, $1/10W$
R28	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W	R110	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
R29	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W				
R30	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W	R111	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
Lan	UNDAUGO-UGZ I IV	110001011		R112	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
D24	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	R113	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R31	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	R114	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R32	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R115	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R33	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R116	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R34		RESISTOR	39kΩ,1/10W	R117	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R35	QRSA08J-393YN	RESISTOR	22kΩ,1/10W	R118	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R36	QRSA08J-223YN		39kΩ,1/10W	R119	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R37	QRSA08J-393YN	RESISTOR	43kΩ,1/10W	R120	QRSA08J-682YN	RESISTOR, BR-S800	6.8kΩ,1/10W
R38	QRSA08J-433YN	RESISTOR		nizu	QN0A000-002 I N	neoloton, bit-out	0.004,17
R39	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R121	QRSA08J-154YN	RESISTOR, BR-S800	150kΩ,1/10W
R40	QRSA08J-392YN	RESISTOR	$3.9k\Omega$, $1/10W$	R122	QRSA08J-154YN	RESISTOR, BR-S800	150kΩ,1/10W
		DECISE OF	2.01-0.1./1014	1	QRSA08J-154YN	RESISTOR, BR-S800	150kΩ,1/10W
R41	QRSA08J-392YN	RESISTOR	3.9kΩ ,1/10W	R123		RESISTOR, BR-S800	150kΩ,1/10W
R42	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	R124	QRSA08J-154YN QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
R43	ORSA08J-823YN	RESISTOR	82kΩ,1/10W	R125	QRSA08J-102YN	RESISTOR, BR-S800	1kΩ,1/10W
R44	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W	R126		RESISTOR, BR-S800	3.9kΩ,1/10W
R45	QRSA08J-823YN	RESISTOR	82kΩ,1/10W	R127	QRSA08J-392YN	RESISTOR, BR-S800	3.9kΩ,1/10W
R46	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R128	QRSA08J-392YN QRSA08J-223YN	RESISTOR, BR-S800	22kΩ,1/10W
R47	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R129	QRSA08J-223YN		22kΩ,1/10W
R48	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R130	URSAU83-223 1 N	RESISTOR, BR-S800	22KW,1/ 10W
R49	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	2404	ODGAGE LOGGVA	DECICTOR DE COAS	001-0 4 /1014
R50	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	R131	QRSA08J-223YN	RESISTOR, BR-S800	
				R132	QRSA08J-154YN	RESISTOR, BR-S800	150kΩ,1/10W
R51	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10W				
R52	QRSA08J-392YN	RESISTOR	$3.9k\Omega$,1/10W	R201	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R53	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R202	QRSA08J-153YN	RESISTOR	15kΩ,1/10W
R54	QRSA08J-393YN	RESISTOR	39kΩ ,1/10W	R203	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R55	QRSA08J-393YN	RESISTOR	39kΩ ,1/10W	R204	QRSA08J-222YN	RESISTOR	$2.2k\Omega$,1/10W
R56	QRSA08J-393YN	RESISTOR	$39k\Omega$, $1/10W$	1	QRSA08J-272YN	RESISTOR	$2.7 k\Omega$, $1/10W$
R 57	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R206	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
P58	QRSA08J-393YN	RESISTOR	39kΩ,1/10W	R207	QRSA08J-221YN	RESISTOR	220Ω ,1 \angle 10W
P359	QRSA08J-471YN	RESISTOR	470 Ω ,1 / 10W	R208	QRSA08J-392YN	RESISTOR	$3.9k\Omega$, $1/10W$
R60	QRSA08J-471YN	RESISTOR	470Ω,1/10W	R209	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W
				R210	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10W$
P61	QRSA08J-152YN	RESISTOR	$1.5 k\Omega$,1/10W				
F62	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W	R211	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
F63	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R212	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10W
R64	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R213	QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10W
FR65	QRSA08J-223YN	RESISTOR	22kΩ,1/10W		QRSA08J-154YN	RESISTOR	150kΩ,1/10W
F366	QRSA08J-223YN	RESISTOR	22kΩ,1/10W		QRSA08J-333YN	RESISTOR	33kΩ,1/10W
F67	QRSA08J-821YN	RESISTOR	820 Ω ,1 / 10W	R216	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	QRSA08J-821YN	RESISTOR	820Ω,1/10W	R217	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
EDGO							
FR68	QRSA08J-181YN	RESISTOR	180 Ω ,1 / 10W	R218	QRG129J-820	OMF RESISTOR	82Ω,1∕2W

REF No	PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME,	DESCRIPTION
R220	QRSA08J-123YN	RESISTOR	$12k\Omega$,1/10W	R333	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
				R334	QRSA08J-223YN	RESISTOR	22kΩ,1/10V
R221	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R335	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R222	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R336	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10V
R223	QRSA08J-750YN	RESISTOR	75Ω,1/10W	R337	QRSA08J-102YN	RESISTOR	1kΩ,1/10V
		RESISTOR	270 Ω ,1 / 10W	R338	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
R224	QRSA08J-271YN						
R225	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R339	QRSA08J-333YN	RESISTOR	33kΩ,1/10V
R226	ORSA08J-393YN	RESISTOR	39kΩ,1/10W	R340	QRSA08J-102YN	RESISTOR	1kΩ,1/10V
R227	QRSA08J-152YN	RESISTOR	1.5k Ω ,1/10W				
R228	QRSA08J-101YN	RESISTOR	100Ω , $1/10W$	R341	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/10V$
R229	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R342	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10V
R230	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	R343	QRSA08J-561YN	RESISTOR	560 Ω ,1/10V
				R344	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10V
R231	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R345	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10V
		RESISTOR	150kΩ,1/10W	R346	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10V
R232	QRSA08J-154YN			•			
R233	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R347	QRSA08J-333YN	RESISTOR	33kΩ,1/10V
R234	QRSA08J-472YN	RESISTOR	$4.7k\Omega$, $1/10W$	R348	QRSA08J-183YN	RESISTOR	$18k\Omega$, $1/10V$
R235	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/10W$	R349	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/10V$
R236	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R350	QRSA08J-102YN	RESISTOR	1kΩ,1/10\
R237	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W				
R238	QRSA08J-221YN	RESISTOR	220 Ω ,1 / 10W	R351	QRSA08J-471YN	RESISTOR	470 Ω ,1/10V
		RESISTOR	1kΩ,1/10W	R352	QRSA08J-561YN	RESISTOR	560 Ω ,1 / 10 V
R239	QRSA08J-102YN						
R240	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W	R353	QRSA08J-561YN	RESISTOR	560 Ω ,1/10V
				R354	QRSA08J-561YN	RESISTOR	560 Ω ,1/10V
R241	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R355	QRSA08J-392YN	RESISTOR	$3.9k\Omega$, $1/10V$
R242	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R356	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R243	QRSA08J-471YN	RESISTOR	470Ω,1/10W	R357	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
• • • • • • • • • • • • • • • • • • • •				R358	QRSA08J-223YN	RESISTOR	22kΩ,1/10V
R301	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W	R359	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R302	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	R360	QRSA08J-222YN	RESISTOR	
				L300	UNDAU01-2221 N	NESISTUR	$2.2k\Omega$, $1/10V$
R303	QRSA08J-104YN	RESISTOR	100kΩ,1/10W				
R304	QRSA08J-272YN	RESISTOR	$2.7 k\Omega$,1/10W	R361	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10V$
R305	QRSA08J-222YN	RESISTOR	$2.2k\Omega$,1/10W	R362	QRSA08J-333YN	RESISTOR	33kΩ,1∕10V
R306	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W	R363	QRSA08J-153YN	RESISTOR	15kΩ,1/10V
R307	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W	R364	QRSA08J-102YN	RESISTOR	1kΩ,1/10V
R308	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R365	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R309	QRSA08J-273YN	RESISTOR	27kΩ,1/10W	R366	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R310	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R367	QRSA08J-102YN	RESISTOR	1kΩ,1/10V
11310	QUOM000-100 114	NESIGION	10Ka4,1/ 1011				
			001 O 4 /4014	R368	QRSA08J-333YN	RESISTOR	33kΩ,1/10V
R311	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R369	QRSA08J-153YN	RESISTOR	15kΩ,1/10V
R312	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$	R370	QRSA08J-152YN	RESISTOR	1.5 k Ω , $1/10$ V
R313	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/10W$				
R314	QRSA08J-182YN	RESISTOR	$1.8k\Omega$, $1/10W$	R371	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R315	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W	R372	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10V
R316	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W	R373	QRSA08J-333YN	RESISTOR	33kQ,1/10V
R317	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R374	QRSA08J-273YN		27kΩ,1/10V
						RESISTOR	
R318	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R375	QRSA08J-152YN	RESISTOR	$1.5k\Omega$, $1/10V$
R319	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W	R376	QRSA08J-105YN	RESISTOR	$1M\Omega,1/10V$
R320	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R377	QRSA08J-105YN	RESISTOR	1MΩ,1/10V
				R378	QRSA08J-103YN	RESISTOR	10kΩ,1/10V
R321	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R379	QRSA08J-103YN	RESISTOR	10k Q ,1/10V
R322	QRSA08J-333YN	RESISTOR	33kΩ,1/10W	R380	QRSA08J-105YN	RESISTOR	1NQ,1/10V
R323	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	11000	Q110/1000 100114	TILDIOTOTT	111182/1/ 101
				D004	0001001111111	B 101070 D	4010 4 /401
R324	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/10W	R381	QRSA08J-101YN	RESISTOR	101Ω , $1/10V$
R325	QRSA08J-122YN	RESISTOR	$1.2k\Omega$, $1/10W$	R382	QRSA08J-101YN	RESISTOR	101 2,1/100
R326	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W	R383	QRSA08J-471YN	RESISTOR	471 Q ,1/10V
R327	QRSA08J-471YN	RESISTOR	470Ω,1/10W				
R328	QRSA08J-561YN	RESISTOR	560 Ω ,1/10W			*	
R329	QRSA08J-561YN	RESISTOR	560Ω,1/10W	C1	QER61CM-476	E CAPACITOR	47 μ F,16\
R330		RESISTOR	560 Ω ,1 / 10W	C2			
11000	QRSA08J-561YN	NEORIUN	000 M , 1 / 10 W		QER61CM-476	E CAPACITOR	47 μ F,16\
				C3	QEPC1CM-186	NP E CAPACITOR	
D004					CCDOLOLI IAA		
R331 R332	QRSA08J-392YN QRSA08J-152YN	RESISTOR RESISTOR	3.9kΩ ,1 / 10W 1.5kΩ ,1 / 10W	C4 C5	QEPC1CM-106 QER61CM-476	NP E CAPACITOR E CAPACITOR	1 0 μ F,16 V 4 7 μ F,16 V

#≜REF No.	PART No.	PART NAME, DES	CRIPTION	#≜REF No.	PART No.	PART NAME, DE	SCRIPTION
			47 μ F,16V	C214	QCTA1CH-220	CAPACITOR	22pF,16V
C6	QER61 CM-476	E CAPACITOR	22 μ F,16V	C215	QCYA1HK-152	CAPACITOR	0.0015 μ F,50V
C7	QER61 CM-226	E CAPACITOR		C216	QCYA1HK-222	CAPACITOR	0.0022 μ F,50V
C8	QER61 CM-226	E CAPACITOR	22 μ F,16V	C216	QER61HM-105	E CAPACITOR	1 μ F,50V
C9	QEPC1 CM-106	NP E CAPACITOR	10 μ F,16V		QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C10	QEPC1 CM-106	NP E CAPACITOR	10 μ F,16V	C218		TRIMMER CAPACIT	
			40 =40\	C220	PU57672-500	INIMINEN CAPACIT	On Jupi
C11	QEPC1 CM-106	NP E CAPACITOR	10 μ F,16V		00744011450	CARACITOR	15=F 16V
C12	QEPC1 CM-106	NP E CAPACITOR	10 μ F,16V	C221	QCTA1CH-150	CAPACITOR	15pF,16V 56pF,16V
C13	QER61 CM-226	E CAPACITOR	22 μ F,16V	C222	QCTA1CH-560	CAPACITOR	
C14	QER61 CM-226	E CAPACITOR	22 μ F,16V	C223	QER61CM-476	E CAPACITOR	47 μ F,16V
C15	QER61 CM-226	E CAPACITOR	22 μ F,16V	C224	QCYA1HK-223	CAPACITOR	0.022 μ F,50V
C16	QER61 CM-226	E CAPACITOR	22 μ F,16V	C225	QCTA1CH-100	CAPACITOR	10pF,16V
C17	QER61 CM-476	E CAPACITOR	47 μ F,16V	C226	PU57672-200	TRIMMER CAPACIT	
C18	QER61 CM-476	E CAPACITOR	47 μ F,16V	C227	QER61CM-476	E CAPACITOR	47 μ F,16V .
C19	QER61 CM-476	E CAPACITOR	47 μ F,16V	C228	QCYA1HK-223	CAPACITOR	0.022 μ F,50V
C20	QETC1 CM-107	E CAPACITOR	100 μ F,16V	C229	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
				C230	QCTA1CH-101	CAPACITOR	100pF,16V
C21	QETC1 CM-107	E CAPACITOR	100 μ F,16V				
C22	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C232	QCTA1CH-101	CAPACITOR	100pF,16V
C23	QETC1 CM-107	E CAPACITOR	100 μ F,16V	C233	QCTA1CH-220	CAPACITOR	22pF,16V
C24	QETC1 CM-107	E CAPACITOR	100 μ F,16V				
C25	QER61 CM-476	E CAPACITOR	47 μ F,16V	C301	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C26	QER61 CM-226	E CAPACITOR	22 μ F,16V	C302	QER61CM-476	E CAPACITOR	47 μ F,16V
C27	QER61 CM-476	E CAPACITOR	47 μ F,16V	C303	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C28	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C304	QEPC1 CM-226	NP E CAPACITOR	22 μ F,16V
C29	QEPC1 CM-106	NP E CAPACITOR	10 μ F,16V	C305	QER61CM-106	E CAPACITOR	10 μ F,16V
C30	QEPC1 CM-106	NP E CAPACITOR	10 μ F,16V	C306	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
Cau	QEFOI ON 100			C307	QER61EM-475	E CAPACITOR	4.7 μ F,25V
C31	QER61 CM-226	E CAPACITOR	22 μ F,16V	C308	QER61CM-476	E CAPACITOR	47 μ F,16V
	QER61 CM-226	E CAPACITOR	22 μ F,16V	C309	QER61CM-476	E CAPACITOR	47 μ F,16V
C32	QER61CM-106	E CAPACITOR	10 μ F,16V	1	QER61EM-475	E CAPACITOR	4.7 μ F,25V
C33	QER61 CM-106	E CAPACITOR	10 μ F,16V				
C34	QER61 CM-475	E CAPACITOR	4.7 μ F,16V	C311	QER61EM-475	E CAPACITOR	4.7 μ F,25V
C35	QER61 CM-475	E CAPACITOR	4.7 μ F,16V	C312	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C36	QER61CM-476	E CAPACITOR	47 μ F,16V	C313	QER61AM-476	E CAPACITOR	47 μ F,10V
C37	QER61CM-476	E CAPACITOR	47 μ F,16V	C314	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C38	QCYA1HK-333	CAPACITOR	0.033 μ F,50V	C315	QER61AM-226	E CAPACITOR	22 μ F,10V
C39	QCYA1HK-333	CAPACITOR	0.033 μ F,50V	C316	QCTA1CH-390	CAPACITOR	39pF,16V
C40	QCTATHK-333	OAFAOITOR	0,000 11 100 1	C317	QCTA1CH-121	CAPACITOR	120pF,16V
0-4	OFD64 CM 106	E CAPACITOR, BR	S800 10 μ F,16V		QEPC1HM-105	NP E CAPACITOR	1 μ F,50V
C51	QER61CM-106	E CAPACITOR, BR			QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C52	QER61 CM-106	E CAPACITOR, BR		1	QER61CM-106GZ	E CAPACITOR	10 μ F,16V
C53	QER61CM-106	E CAPACITOR, BR-			Q2,101011111002		
C54	QER61CM-106	E CAPACITOR, BR	· ·		QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C55	QER61CM-476	E CAPACITOR, BR			QCYA1HK-223	CAPACITOR	0.022 µ F,50V
C56	QER61CM-476	E CAPACITOR, BR			QCYA1HK-223	CAPACITOR	0.022 µ F,50V
C57	QER61CM-476				QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C58	QER61CM-476	E CAPACITOR, BR			QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C59	QER61CM-476	E CAPACITOR, BR			QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C60	QEPC1 CM-106	NP CAPACITOR, BE	7-3000 IV # F, IV V	C327	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
		E 04 D4 01TOD	47 E 16V	1	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C201	QER61CM-476	E CAPACITOR	47 μ F,16V				0.01 μ F,50V
C202	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C329	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C203	QEK61CM-107	E CAPACITOR	100 μ F,16V	1	QCYA1 HK-103	CAPACITOR	U.U Ι μ [-,50 V
C205	QEPC1CM-106	NP E CAPACITOR	10 μ F,16V		00744117 103	CARACITOR	0.01 E EOV
C206	QCTA1CH-331	CAPACITOR	330pF,16V		QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C207	QETC1 HM-335ZE		3.3 μ F,50V	1	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C208	QEK61CM-107	E CAPACITOR	100 μ F,16V		QCTA1CH-101	CAPACITOR	100pF,16V
C209	QCTA1CH-101	CAPACITOR	100pF,16V		QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C210	QER61CM-476	E CAPACITOR	47 μ F,16V		QCYA1 HK-103	CAPACITOR	0.01 μ F,50V
				C336	QER61AM-476	E CAPACITOR	47 μ F,10V
C211	PU54990-3	E CAPACITOR		C337	QCYA1HK-223	CAPACITOR	0.022 μ F,50V
C212	QER61AM-227	E CAPACITOR	220 μ F,10V		QEPC1 CM-226	NP E CAPACITOR	22 μ F,16V
C213	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C339	QCTA1CH-390	CAPACITOR	39pF,16V

44 F	DEE No	PART No.	PART NAME, DESC	PRIPTION	#∆REF No.	PART No.	PART NAME, DESCRIPTION
	C340	QCTA1CH-121	CAPACITOR	120pF,16V	SLD1 SLD2	PU36469 PU60657	SHIELD CASE SHIELD COVER
		QEPC1HM-105	NP E CAPACITOR	1 μ F,50V			
	C342	QCYA1HK-103	CAPACITOR	0.01 μ F,50V			
	C343	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	SPC1	PGZ01128-02	SPACER, × 2
. (C344	QCYA1HK-102	CAPACITOR	0.001 μ F,50V			
	C345	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	TP1	SQMX001-001Z	TEST PIN, × 21
1	C346	QCYA1HK-103	CAPACITOR	0.01 μ F,50V			
	C347	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	:		
	C348	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	CN1	PGZ01937-44	MALE CONNECTOR
	C349	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	CN2	PGZ01937-44	MALE CONNECTOR
	C350	QCYA1HK-102	CAPACITOR	0.001 μ F,50V			
	C351	QCYA1HK-103	CAPACITOR	0.01 μ F,50V			
	C352	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	SERVO	/M-CTI BOA	ARD ASSEMBLY <30>
	C353	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	OLIVO	/ WEOTE BOX	AND AGGENIBE! \30>
	C354	QCYA1HK-103	CAPACITOR	0.01 μ F,50V			
	C355	QCYA1HK-103	CAPACITOR	0.01μ F,50V			
	C356	QCTA1CH-101	CAPACITOR	100pF,16V	PWBA	PRK10135B	M-CTL/R-SERVO BOARD ASSY
	C357	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V			
	C358	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V			
	C359	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	STK1	PRD30072-83	STICKER
	C360	QER61CM-476	E CAPACITOR	47 μ F,16V	STK2	PRD30072-84	STICKER
				0.000 . E FOV	STK3	PRD30072-85	STICKER
	C361	QCYA1HK-223	CAPACITOR	0.022 μ F,50V			
	C362	OCYA1HK-103	CAPACITOR	0.01 μ F,50V	104	HODAGEADO	10
	C363	QCTA1CH-561	CAPACITOR	560pF,16V	IC1	UPD4053BG	IC
	C364	QCTA1CH-561	CAPACITOR	560pF,16V	IC2	UPD74HC04G	IC
	C365	QCYA1HK-223	M CAPACITOR	0.022 μ F,50V	IC3	BA10393F	IC
					IC4	TC4W53F	IC
					IC5	UPD4030BG	IC
	L201	PU48530-221J	COIL	220 μ H	IC6	UPD4066BG	IC
	L202	PU48530-221J	COIL	220 μ H	IC7	UPD4066BG	IC
	L203	PU48530-221J	COIL	220 μ H	IC8	NJM2068MD	IC
	L204	PU48530-220J	COIL	22 μ H	IC9	BA10393F	IC
					IC10	NJM2068MD	IC *
	L301	PU48530-221J	COIL	220 μ H			
	L302	PU48530-221J	COIL	220 μ H	IC11	BA10393F	IC
	L303	PU48530-221J	COIL	220 μ H	IC12	BA10358F	IC
	L304	PU48530-100J	COIL	10 μ H	IC13	UPD4013BG	IC
	L305	PU48530-100J	COIL	10 μ H	IC14	SC78148GF-026	IC
	L306	PU48530-221J	COIL	220 µ H	IC15	BR24C02F	IC
	L307	PU48530-221J	COIL	220 μ H	IC16	UPD74HC573GS	IC
	L308	PU48530-100J	COIL	10 μ H	IC17	UPD74HC138G	IC
	L309	PU48530-100J	COIL	10 μ H	IC18	PGD30620C-14-2	IC
					IC21	UPD71055GB	IC
	BPF301	PELN0396	BAND PASS FILTER		IC22	NJM2068MD	IC
					IC23	NJM2068MD	IC
	CF1	PU60086	CERAMIC FILTER		IC24	BA10358F	IC
					IC25	BA10339F	IC
					IC26	BA10358F	IC
	DL301	PGZ01558	DELAY LINE, ×2(DL	301, DL302)	IC28	BA10358F	IC
					IC31	M62354FP	IC
Δ	X1	PGZ01700	CRYSTAL RESONATO	R	IC32	NJM2068MD	IC
_					IC33	TA8405S	IC
					IC34	BA10358F	IC
	K201	PU60281-2Z	FERRATE BEADS		IC35	BA10393F	ic
	K202	PU60281-2Z	FERRATE BEADS		IC36	TL431CLP	IC
	K203	PU60281-2Z	FERRATE BEADS		IC37	AN3834K	IC
	K204	PU60281-2Z	FERRATE BEADS		IC38	AN3834K	IC
	K205	PU60281-2Z	FERRATE BEADS		IC39	TC4S69F	IC
	14200	PU00401-44	LINIAIL DEADO		1003	. 570001	

REF No.	PART No.	PART NAME, DE	SCRIPTION	#▲ REF No.	PART No.	PART NAME	DESCRIPTION
Q1	2SC241 2K(RS)	TRANSISTOR		R9	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/1
02	2SA1037K(QR)	TRANSISTOR		R10	QRSA08J-101YN	RESISTOR	100 Ω ,1/1
O3	2SC241 2K(RS)	TRANSISTOR					
		FE TRANSISTOR		R11	QRSA08J-102YN	RESISTOR	$1k\Omega J/1$
Q4	2SK621	FE TRANSISTOR		R12	QRSA08J-561YN	RESISTOR	560 Ω ,1/1
Q5	2SK621			R13	QRSA08J-222YN	RESISTOR	2.2kΩ,1/1
Q6	2SC241 2K(QR)	TRANSISTOR		R14	NRVA62D-183N	RESISTOR	18kΩ,1/1
Q7	DTC114EK	TRANSISTOR			NRVA62D-334N	RESISTOR	330kΩ,1/1
Q8	2SA1037K(QR)	TRANSISTOR		R15			330kΩ,1/1
Q9	2SC241 2K(RS)	TRANSISTOR		R16	NRVA62D-334N	RESISTOR	
Q10	2SD1691(K)	TRANSISTOR		R17	NRVA62D-334N	RESISTOR	330kΩ,1/1
		4"		R18	QRSA08J-222YN	RESISTOR	2.2kΩ .1/1
Q11	2SK621	FE TRANSISTOR		R19	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/1
Q12	DTA114EK	TRANSISTOR		R20	QRSA08J-224YN	RESISTOR	220kΩ,1/1
Q22	DTC114YK	TRANSISTOR		R21	QRSA08J-474YN	RESISTOR	470kΩ,1/1
Q23	DTC114WK	TRANSISTOR		R22	QRSA08J-474YN	RESISTOR	470kΩ,1/1
	2SD1468S(RS)	TRANSISTOR		R23	QRSA08J-222YN	RESISTOR	2,2kΩ,1/1
O24		TRANSISTOR		R24	QRSA08J-224YN	RESISTOR	220kΩ,1/1
Q25	2SB1151(L)			R25	NRVA62D-183N	RESISTOR	18kΩ,1/1
Q26	2SB1073(PQ)-XE	TRANSISTOR		R26	NRVA62D-334N	RESISTOR	330kΩ,1/1
Q27	2SB1073(PQ)-XE	TRANSISTOR		1		RESISTOR	330kΩ,1/1
Q30	2SB907	TRANSISTOR		R27	NRVA62D-334N		330kΩ,1/1
				R28	NRVA62D-334N	RESISTOR	
Q31	2SB1073(PQ)-XE	TRANSISTOR		R29	QRSA08J-222YN	RESISTOR	2.2kΩ,1/1
Q32	2SB1073(PQ)-XE	TRANSISTOR		R30	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/1$
Q33	DTC114WK	TRANSISTOR					
Q34	DTC114WK	TRANSISTOR		R31	QRSA08J-103YN	RESISTOR	10kΩ,1/1
Q37	DTC114WK	TRANSISTOR		R32	QRSA08J-332YN	RESISTOR	3.3 k Ω , 1 $/$ 1
Q38	DTC114WK	TRANSISTOR		R33	QRSA08J-222YN	RESISTOR	2.2kΩ,1/°
	DTC114WK	TRANSISTOR		R34	QRSA08J-561YN	RESISTOR	560 Ω ,1/
O39		TRANSISTOR		R35	QRSA08J-564YN	RESISTOR	560kΩ,1/
Q40	2SB1142(RST)	INAMOISTON		R36	QRSA08J-103YN	RESISTOR	10kΩ,1/
						RESISTOR	1kΩ,1/
Q41	2SD1468S(RS)	TRANSISTOR		R37	QRSA08J-102YN		1MΩ,1/
Q42	DTA124EK	TRANSISTOR		R38	QRSA08J-105YN	RESISTOR	
Q43	2SB1142(RST)	TRANSISTOR		R39	QRSA08J-102YN	RESISTOR	1kΩ,1/
Q44	2SD1468S(RS)	TRANSISTOR		R40	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/
Q45	DTA124EK	TRANSISTOR					
				R41	QRSA08J-103YN	RESISTOR	10kΩ,1/
				R42	QRSA08J-103YN	RESISTOR	10kΩ,1/
D 1	DAN202K	DIODE		R43	QRSA08J-100YN	RESISTOR	10Ω,1/
D2	RB400 D	DIODE		R44	QRSA08J-103YN	RESISTOR	10kΩ,1/
	HZ5CLL	ZENER DIODE		R45	QRSA08J-333YN	RESISTOR	33kΩ ,1/
D3		ZENER DIODE		R46	QRSA08J-183YN	RESISTOR	18kΩ,1/
D4	HZ5CLL	ZENER DIODE		R47	QRSA08J-472YN	RESISTOR	4.7kΩ.1/
	· · · · · · · · · · · · · · · · · · ·	21022	76.				2.2kΩ,1/
D21	ERA15-02PNLB	DIODE		R48	QRSA08J-222YN	RESISTOR	
D22	ERA15-02PNLB	DIODE		R49	QRSA08J-394YN	RESISTOR	390kΩ,1/
D25	ERA15-02PNLB	DIODE		R50	NRVA62D-473N	RESISTOR	47kΩ,1/
D26	ERA15-02PNLB	DIODE					
D27	ERA15-02PNLB	DIODE		R51	NRVA62D-473N	RESISTOR	47kΩ ,1/
D28	RK14LF-B2	DIODE		R52	NRVA62D-222N	RESISTOR	2.2kΩ ,1 ∕
D29	DAN202K	DIODE		R53	QRSA08J-562YN	RESISTOR	5.6kΩ,1/
D30	RK14LF-B2	DIODE		R54	NRVA62D-222N	RESISTOR	2.2kΩ ,1/
200	INCIAEL OF			R55	QRSA08J-684YN	RESISTOR	680kΩ,1/
-	DANGOTY	DIODE		R56	QRSA08J-222YN	RESISTOR	2.2kΩ,1/
D31	DAN202K			R57	QRSA08J-222YN	RESISTOR	2.2kΩ,1/
D 32	MA3056(M)	DIODE					100kΩ,1/
D 33	DAN202K	DIODE		R58	QRSA08J-104YN	RESISTOR	
	· ·			R59	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/′
				R60	QRSA08J-103YN	RESISTOR	10kΩ,1/
R3	QRSA08J-104YN	RESISTOR	100kΩ,1/10W			* .	
F4	QRSA08J-222YN	RESISTOR	$2.2k\Omega$,1/10W		QRSA08J-473YN	RESISTOR	47kΩ,1/
P 35	QRSA08J-183YN	RESISTOR	18kΩ,1/10W		QRSA08J-472YN	RESISTOR	4.7kΩ,1/
		RESISTOR	18kΩ,1/10W		NRVA62D-222N	RESISTOR	2.2kΩ,1/
	QRSA08J-183YN	1100101011					
\$R6	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R64	QRSA08J-102YN	RESISTOR	1kΩ,1/1

#≜REF No.	PART No.	PART NAME,	DESCRIPTION	# <u>∧</u> REF No.	PART No.		DESCRIPTION
R66	NRVA62D-222N	RESISTOR	2.2kΩ ,1/16W	R124	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W
R67	QRSA08J-684YN	RESISTOR	680kΩ,1/10W	R125	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R68	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R126	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W
R69	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R127	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R70	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	R128	QRSA08J-152YN	RESISTOR	1.5kΩ ,1/10W
N/ V	Choron in it	112001011	,,,	R129	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R71	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R130	QRSA08J-101YN	RESISTOR	100 Ω ,1/10W
R72	QRSA08J-823YN	RESISTOR	82kΩ,1/10W				
	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R131	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
R73	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W	R132	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
R74		RESISTOR	1MΩ,1/10W	R133	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
R75	QRSA08J-105YN	RESISTOR	10kΩ,1/10W	R134	QRSA08J-101YN	RESISTOR	100 Ω ,1/10W
R76	QRSA08J-103YN		100kΩ,1/10W	R135	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
R77	QRSA08J-104YN	RESISTOR		R136	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
R78	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W				
R79	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R137	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
R80	QRSA08J-223YN	RESISTOR	22kΩ,1/10W	R138	QRSA08J-101YN	RESISTOR	100 Ω,1/10W
R81	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R202	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R82	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	R203	QRSA08J-331YN	RESISTOR	330 Ω ,1/10W
R83	QRSA08J-822YN	RESISTOR	$8.2k\Omega$, $1/10W$	R204	QRSA08J-121YN	RESISTOR	120 Ω ,1 / 10W
R84	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	R205	QRSA08J-153YN	RESISTOR	15kΩ,1/10W
R85	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R206	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R86	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R207	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
R87	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R208	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R88	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R209	QRSA08J-153YN	RESISTOR	15kΩ,1/10W
R90	QRSA08J-473YN	RESISTOR	47kΩ ,1/10W	R210	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	OD0400 I 472VN	DECISTOR	47kO 1 /10\M	R211	QRSA08J-224YN	RESISTOR	220kΩ,1/10W
R91	QRSA08J-473YN	RESISTOR	47kΩ,1/10W		QRSA08J-224YN	RESISTOR	221kΩ,1/10W
R92	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	R212	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
R93	QRSA08J-184YN	RESISTOR	180kΩ ,1 / 10W	R213			
R94	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R214	QVPC625-103Z	V RESISTOR	10kΩ
R95	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R215	QRSA08J-273YN	RESISTOR	27kΩ,1/10W
R96	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R216	QRSA08J-154YN	RESISTOR	15(kΩ,1/10W
R97	QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	R217	QRSA08J-103YN	RESISTOR	1(kΩ,1/10W
R98	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R218	QRSA08J-221YN	RESISTOR	220 Ω,1/10W
R99	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	R219	QRSA08J-333YN	RESISTOR	33k Ω ,1 / 10W
R100	QRSA08J-272YN	RESISTOR	2.7kΩ ,1/10W	R220	QRSA08J-103YN	RESISTOR	11kΩ,1/10W
R101	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R221	QRSA08J-0R0Y	RESISTOR	0 Ω,1/10W
R102	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R222	QVPC625-102Z	V RESISTOR	1kΩ
R103	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	R223	QRSA08J-681YN	RESISTOR	68D Ω,1/10W
R104	ORSA08J-103YN	RESISTOR	10kΩ,1/10W	R224	QRSA08J-271YN	RESISTOR	270 Ω,1/10W
R105	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	R225	QRSA08J-221YN	RESISTOR	22D Ω,1/10W
R186	QRSA08J-104YN	RESISTOR	. 100kΩ,1/10W	R226	QRSA08J-121YN	RESISTOR	12D Ω,1/10W
R107	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	R227	QRSA08J-104YN	RESISTOR	100k Ω ,1/10W
R108	QRSA08J-121YN	RESISTOR	120Ω,1/10W	R228	QRSA08J-103YN	RESISTOR	10k Ω ,1/10W
R109	QRSA08J-121YN	RESISTOR	120Ω,1/10W	R229	QRSA08J-103YN	RESISTOR	1(k Ω,1/10W
R110	QRSA08J-121YN	RESISTOR	120Ω,1/10W	R230	QRSA08J-103YN	RESISTOR	$10k \Omega ,1/10W$
R111	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R231	QRSA08J-103YN	RESISTOR	10k Ω.1/10W
R112	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R232	QRSA08J-563YN	RESISTOR	56k Ω,1/10W
		RESISTOR	1kΩ,1/10W	R233	QRSA08J-104YN	RESISTOR	10 k Ω ,1/10W
R113	QRSA08J-102YN	RESISTOR	2.2kΩ,1/10W	R234	QRSA08J-104YN	RESISTOR	10 k Ω ,1 / 10W
R114	QRSA08J-222YN		2.2kΩ,1/10W	R235	QRSA08J-103YN	RESISTOR	10k Ω ,1/10W
R115	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W 220kΩ,1/10W	R236	QRSA08J-682YN	RESISTOR	6.8¢ Ω,1/10W
R116	QRSA08J-224YN	RESISTOR		R230	QRSA08J-332YN	RESISTOR	3.3 _k Ω,1/10W
R117	QRSA08J-224YN	RESISTOR	220kΩ,1/10W				3.3c Ω,1/10W
R118	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R238	QRSA08J-332YN	RESISTOR	
R119	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R239	QRSA08J-473YN	RESISTOR	47c Ω ,1 /10W
	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$. R240	QRSA08J-103YN	RESISTOR	10c Ω ,1/10W
R120							
R120 R121	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	R241	QRSA08J-274YN	RESISTOR	270c Ω ,1/10W
	QRSA08J-102YN QRSA08J-102YN	RESISTOR RESISTOR RESISTOR	1kΩ,1/10W 1kΩ,1/10W 1kΩ,1/10W	R241 R242 R243	QRSA08J-274YN QRSA08J-102YN QRSA08J-102YN	RESISTOR RESISTOR	270c Ω ,1/10W 1c Ω ,1/10W 1c Ω ,1/10W

#≜REF No.	PART No.	PART NAME,	DESCRIPTION	#_	REF No.	PART No.	PART NAME, DE	
R244	QRSA08J-223YN	RESISTOR	22kΩ,1/10W		R307	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/10$ W
R245	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W		R308	QRSA08J-472YN	RESISTOR	4.7kΩ ,1 / 10W
R246	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W		R309	QRSA08J-472YN	RESISTOR	4.7 k Ω , 1 / 10 W
R247	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W				•	
R248	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W		R314	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/10$ W
R249	QRSA08J-333YN	RESISTOR	33kΩ,1/10W		R315	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/10$ W
R250	QRSA08J-103YN	RESISTOR	10kΩ,1/10W		R316	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/10$ W
1,200					R317	QRSA08J-472YN	RESISTOR	4.7 k Ω , 1 \angle 10W
R251	QRSA08J-474YN	RESISTOR	470kΩ,1/10W		R318	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/10$ W
R252	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$		R319	QRSA08J-472YN	RESISTOR	4.7 k Ω , $1/10$ W
R253	QRSA08J-102YN	RESISTOR	$1k\Omega ,1/10W$		R320	QRSA08J-223YN	RESISTOR	$22k\Omega$, $1/10W$
R254	QRSA08J-223YN	RESISTOR	$22k\Omega$, $1/10W$					
R255	QRSA08J-222YN	RESISTOR	$2.2k\Omega$, $1/10W$		R321	QRSA08J-183YN	RESISTOR	18kΩ,1/10W
R256	QRSA08J-121YN	RESISTOR	120 Ω ,1/10W		R322	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R260	QRSA08J-682YN	RESISTOR	6.8 k Ω , 1 / 10 W		R323	QRSA08J-183YN	RESISTOR	18kΩ,1/10W
€ +					R324	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R261	QRSA08J-332YN	RESISTOR	$3.3k\Omega$, $1/10W$	Δ	R325	QRG019J-561S	OMF RESISTOR	560 Ω ,1W
R262	QRSA08J-332YN	RESISTOR	3.3 k Ω , 1 / 10 W		R326	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R263	QRSA08J-473YN	RESISTOR	$47k\Omega$,1/10W		R327	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R264	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W	1	R328	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R265	QRSA08J-274YN	RESISTOR	270 k Ω , $1/10$ W		R329	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R266	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$		R330	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W
R267	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W					
R268	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W		R331	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R269	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W		R332	QRX029J-R56A	MF RESISTOR	0.56 Ω ,2W
R270	QRSA08J-682YN	RESISTOR	6.8 k Ω , $1/10$ W		R333	QRSA08J-221YN	RESISTOR	220Ω,1/10W
					R334	QRSA08J-221YN	RESISTOR	220Ω,1/10W
R271	ORSA08J-332YN	RESISTOR	3.3kΩ ,1/10W		R335	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W
R272	QRSA08J-332YN	RESISTOR	$3.3k\Omega$,1/10W		R336	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
R273	QRSA08J-333YN	RESISTOR	$33k\Omega$,1/10W	1	R337	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R274	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	1	R338	QRG019J-561S	OMF RESISTOR	560 Ω ,1W
R275	QRSA08J-474YN	RESISTOR	470kΩ,1/10W		R339	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R276	QRSA08J-102YN	RESISTOR	$1k\Omega$,1/10W		R340	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10W$
R277	QRSA08J-102YN	RESISTOR	1kΩ,1/10W		50.44	0001001404141	DECICTOR	100kO 1 /10W
R278	QRSA08J-223YN	RESISTOR	22kΩ,1/10W		R341	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R279	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W		R342	QRSA08J-103YN	RESISTOR	10kΩ,1/10W 6.8kΩ,1/10W
R280	QRSA08J-121YN	RESISTOR	120 Ω ,1/10W	1	R343	QRSA08J-682YN	RESISTOR	22kΩ,1/10W
			471 (3.4./4814)		R344	QRSA08J-223YN QRSA08J-221YN	RESISTOR	220Ω,1/10W
R284	QRSA08J-473YN	RESISTOR	47kΩ,1/10W		R345		RESISTOR MF RESISTOR	0.56 Ω ,2W
R285	QRSA08J-473YN	RESISTOR	47kΩ,1/10W		R346	QRX029J-R56A		220 Ω ,1 / 10W
R286	QRSA08J-153YN	RESISTOR	15kΩ,1/10W		R347	QRSA08J-221YN	RESISTOR	82kΩ,1/10W
R287	QRSA08J-393YN	RESISTOR	39kΩ,1/10W		R348	QRSA08J-823YN	RESISTOR	1.8kΩ,1/10W
R288	QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	1	R349	QRSA08J-182YN QRSA08J-562YN	RESISTOR RESISTOR	5.6kΩ,1/10W
R289	QRSA08J-121YN	RESISTOR	120 Ω ,1 / 10W		R350	QN0A003-002 F14	HEOIOTON	J.UK 54 ,1 / 1011
R290	QRSA08J-121YN	RESISTOR	120 Ω ,1 / 10W		R351	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
-	0-0400 L400VN	DECICTOR	10kΩ ,1/10W		R352	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R291	QRSA08J-103YN	RESISTOR	10kΩ,1/10W		R353	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R292	QRSA08J-103YN	RESISTOR	10kΩ,1/10W		R354	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
R293	QRSA08J-103YN	RESISTOR	10kΩ,1/10W		11007	CHOROUS THE	, icolo i O i i	G 62 /1/
R294	QRSA08J-103YN	RESISTOR	10kΩ,1/10W					
R295	QRSA08J-103YN	RESISTOR	10kΩ,1/10W		C1	QENC1CM-476	NP E CAPACITOR	47 μ F,16V
R296	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	1	C2	QETC1CM-476	E CAPACITOR	47 μ F,16V
R297	QRSA08J-103YN	RESISTOR	100kΩ,1/10W		C3	QCFA1EZ-104	CAPACITOR	0.1 μ F ,25V
R298	QRSA08J-104YN	RESISTOR	100kΩ,1/10W		C4	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
R299	QRSA08J-104YN	RESISTOR	100kΩ,1/10W		C5	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
R300	QRSA08J-104YN	RESISTOR	100KM,1/ 1044		C6	QFP42AF-102M	PP CAPACITOR	0.001 μ F 100V
	ODCANO I 484VN	RESISTOR	100kΩ,1/10W		C7	QCFA1EZ-104	CAPACITOR	0.1 μ F ,25V
F301	ORSA08J-104YN	RESISTOR	100kΩ,1/10W		C8	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
R302	QRSA08J-104YN QRSA08J-104YN	RESISTOR	100kΩ,1/10W		C9	QFP42AF-102M	PP CAPACITOR	0.001 µ F,100V
F303	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	1	C10	QCYA1HK-102	CAPACITOR	0.001 µ F,50V
R304	QRSA08J-681YN		680 Ω ,1 / 10W					
R305	QRSA08J-472YN		4.7kΩ,1/10W		C11	QCTA1CH-271	CAPACITOR	270pF,16V
R306	CHUMUU-7/21N	1,200101	117 11 20 717 13 88	i				

#▲REF N	o. PART No.	PART NAME,	DESCRIPTION	#≜REF No.	PART No.	PART NAME,	DESCRIPTION
C12	QCTA1CH-150	CAPACITOR	15pF,16V	C70	QCTA1CH-101	CAPACITOR	100pF,16V
C13	QCYA1HK-102	CAPACITOR	0.001 μ F,50V				
C14	QFN31HJ-473	M CAPACITOR	0.047 μ F,50V	C71	QCTA1CH-101	CAPACITOR	100pF,16V
C15	QETC1CM-106	E CAPACITOR	10 μ F,16V	C72	QCTA1CH-101	CAPACITOR	100pF,16V
C16	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C73	QCTA1CH-101	CAPACITOR	100pF,16V
C17	QETC1CM-476	E CAPACITOR	47 μ F,16V	C74	QCTA1CH-101	CAPACITOR	100pF,16V
C18	QETC1CM-476	E CAPACITOR	47 μ F,16V	C75	QCTA1CH-101	CAPACITOR	100pF,16V
C19	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V	C76	QCTA1CH-101	CAPACITOR	100pF,16V
C20	QCTA1CH-100	CAPACITOR	10pF,16V	C77	QCTA1CH-101	CAPACITOR	100pF,16V
		j		C79	QCTA1CH-101	CAPACITOR	100pF,16V
C21	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C80	QCTA1CH-101	CAPACITOR	100pF,16V
C22	QETC1CM-476	E CAPACITOR	47 μ F,16V				
C23	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V	C81	QCTA1CH-101	CAPACITOR	100pF,16V
C24	QCTA1CH-100	CAPACITOR	10pF,16V	C82	QCTA1CH-101	CAPACITOR	100pF,16V
C25	QCTA1CH-101	CAPACITOR	100pF,16V	C83	QCTA1CH-101	CAPACITOR	100pF,16V
C26	QCTA1CH-101	CAPACITOR	100pF,16V	C84	QCTA1CH-101	CAPACITOR	100pF,16V
C27	QETC1CM-106	E CAPACITOR	10 μ F,16V	C85	QCTA1CH-101	CAPACITOR	100pF,16V
C28	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C86	QCTA1CH-101	CAPACITOR	100pF,16V
C28	QCYA1HK-273	CAPACITOR	0.027 μ F,50V	C87	QCTA1CH-101	CAPACITOR	100pF,16V
		CAPACITOR	0.022 μ F,50V	C88	QCTA1CH-101		
C30	QCYA1HK-223	CAPACITOR	0.022 μ F,30 V			CAPACITOR	100pF,16V
		E CARACITOR	0.00 = ==0\/	C89	QCTA1CH-101	CAPACITOR	100pF,16V
C31	QETC1HM-334	E CAPACITOR	0.33 μ F,50V	C90	QCTA1CH-101	CAPACITOR	100pF,16V
C32	QCTA1CH-270	CAPACITOR	27 pF,16V		0001111111	***	***
C33	OCTA1CH-470	CAPACITOR	47 pF,16V	C91	QCTA1CH-101	CAPACITOR	100pF,16V
C34	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V	C92	QCTA1CH-101	CAPACITOR	100pF,16V
C35	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V	C93	QCTA1CH-101	CAPACITOR	100pF,16V
C36	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V	C94	QCTA1CH-101	CAPACITOR	100pF,16V
C37	QETC1 EM-475	E CAPACITOR	4.7 μ F,25V	C95	QCTA1CH-101	CAPACITOR	100pF,16V
C38	QETC1 HM-225	E CAPACITOR	2.2 μ F,50V	C96	QCTA1CH-101	CAPACITOR	100pF,16V
C39	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V				
C40	QCTA1CH-101	CAPACITOR	100pF,16V	C101	QCYA1HK-102	CAPACITOR	0.001 μ F,50V
				C102	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C41	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C103	QETC1CM-476	E CAPACITOR	. 47 μ F,16V
C42	OCYA1HK-103	CAPACITOR	0.01 μ F,50V	C104	QCYA1HK-223	CAPACITOR	1.0 22 μ F,50V
C43	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C105	QCYA1HK-223	CAPACITOR	1.0 22 μ F,50V
C44	QETC1CM-476	E CAPACITOR	47 μ F,16V	C106	QCYA1HK-223	CAPACITOR	1.0 22 μ F,50 V
C45	QCYA1HK-223	CAPACITOR	0.022μ F,50V	C187	QFN31HJ-104	M CAPACITOR	0.1 μ F,58 V
C46	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C108	QCTA1CH-821	CAPACITOR	820pF,16V
C47	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C109	QCYA1HK-102	CAPACITOR	1.0 01 μ F,50V
C48	QCFA1CZ-334	CAPACITOR	0.33 μ F,16V	C110	QCYA1HK-102	CAPACITOR	1.0 01 μ F,50V
C49	QCFA1CZ-334	CAPACITOR	0.33 μ F,16V				
C50	QETC1CM-476	E CAPACITOR	47 μ F,16V	C111	QCYA1HK-223	CAPACITOR	1.0 22 μ F,50V
		1		C112	QCYA1HK-223	CAPACITOR	1.0 22 μ F,50V
C51	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C113	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
C52	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C114	QCFA1EZ-104	CAPACITOR	0 .1 μ F,25 V
C53	QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C115	QCYA1HK-223	CAPACITOR	1.0 22 µ F,50V
C54	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C116	QETC1CM-476	E CAPACITOR	47 μ F,16V
C55	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C117	QCYA1HK-223	CAPACITOR	1.0 22 µ F,50V
C56	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C1 18	QETC1CM-476	E CAPACITOR	47 μ F,16V
C57	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C119	QETC1CM-106	E CAPACITOR	10 μ F,16V
C58	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C120	QCYA1HK-223	CAPACITOR	1.0 22 μ F,50V
C59	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	G120	QCTATHK-223	CAPACITOR	1,0 22 µ F,30 V
				0111	OFT010M 100	E CARACITOR	40 5 101/
C60	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C121	QETC1CM-106	E CAPACITOR	10 μ F,16V
1004			0 000 P.F.01/	C122	QCYA1HK-223	CAPACITOR	1,0 22 µ F,50V
C61	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C123	QCYA1HK-223	CAPACITOR	1,0 22 µ F,50V
C62	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C124	QCYA1HK-103	CAPACITOR	0. 0 1 μ F,50 V
C63	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C125	QCYA1HK-103	CAPACITOR	0. 0 1 μ F,50 V
C64	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C126	OCYA1HK-102	CAPACITOR	¢,0 € 1 μ F,50 V
C65	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C127	QCYA1HK-103	CAPACITOR). © 1 μ F,50 V
C66	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	C130	QCFA1EZ-104	CAPACITOR	0 .1 μ F,25V
C67	QCYA1HK-223	CAPACITOR	0.022 μ F,50V				
C68	QCTA1CH-101	CAPACITOR	100pF,16V	C131	QCYA1HK-223	CAPACITOR	0.0 22 μ F,50V
C69	QCTA1CH-101	CAPACITOR	100pF,16V	C132	QCTA1CH-7R0	CAPACITOR	7pF,16V

#≜REF No.	PART No.	PART NAME,	DESCRIPTION	# <u>∧</u> RI	EF No	. PART No.	PART NAME, DE	SCRIPTION
	OCYA1 HK-223	CAPACITOR	0.022 μ F,50V	C1	95	QETC1VM-227	E CAPACITOR	220 μ F,35V
C133	QCFA1 EZ-104	CAPACITOR	0.1 μ F,25V		96	QEZ0139-107Z	E CAPACITOR	100 μ F
C134	QCTA1 CH-7R0	CAPACITOR	7pF,16V		197	QEZ0139-107Z	E CAPACITOR	100 μ F
C135	OCFA1 EZ-104	CAPACITOR	0.1 μ F,25V		98	QEZ0139-107Z	E CAPACITOR	100 μ F
C138	QCTA1 CH-7R0	CAPACITOR	7pF,16V		199	QETC1CM-106	E CAPACITOR	10 μ F,16V
C139		CAPACITOR	0.022 μ F,50V		200	QCYA1HK-223	CAPACITOR	0.022 μ F,50V
C140	QCYA1 HK-223	CAPACITOR	0,022 / 1,004					
0111	00VA1UV 222	CAPACITOR	0.022 μ F,50V	C	201	QETC1 EM-476	E CAPACITOR	47 μ F.25V
C141	QCYA1 HK-223		0.1 μ F,25V		202	QFV11HJ-104	MM CAPACITOR	0.1 μ F,50V
C142	QCFA1 EZ-104	CAPACITOR	7pF,16V		203	QCYA1HK-223	CAPACITOR	0.022 μ F,50V
C143	QCTA1 CH-7R0	CAPACITOR	0.022 μ F,50V		205	QFV11HJ-194	MM CAPACITOR	0.1 μ F,50V
C146	QCYA1HK-223	CAPACITOR E CAPACITOR	47 μ F,16V		206	QFV11HJ-104	MM CAPACITOR	0.1 μ F,50V
C147	QETC1CM-476	CAPACITOR	0.0047 μ F,50V		207	QFV11HJ-154	TF CAPACITOR	0.15 μ F,50V
C148	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V		208	QFV11HJ-154	TF CAPACITOR	0.15 μ F,50V
C149	OCYA1 HK-472		0.01 μ F,50V		209	QFV11HJ-154	TF CAPACITOR	0.15μ F,50V
C150	QCYA1HK-103	CAPACITOR	0.01 pt 1,004		210	QETC1HM-475	E CAPACITOR	4.7 μ F,50V
0474	00VA41IV 102	CAPACITOR	0.01 μ F,50V			C2 /0///////////////////////////////////		, , , , , , ,
C151	QCYA1 HK-103	CAPACITOR	0.01 μ F,50V	C	211	QETC1HM-475	E CAPACITOR	4.7 μ F,50V
C152	QCYA1HK-103		0.001 μ F,50V	-	212	QETC1HM-475	E CAPACITOR	4.7 μ F,50V
C153	QCYA1HK-102	CAPACITOR	0.01 μ F,50V		213	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V
C154	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		214	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V
C155	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		215	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V
C156	QCYA1HK-103	CAPACITOR	0.022 μ F,50V	3	216	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
C157	QCYA1 HK-223		220 μ F,35V	1	217	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
C158	QETC1 VM-227	E CAPACITOR E CAPACITOR	47 μ F,25V		218	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
C159	QETC1 EM-476	CAPACITOR	0.022 μ F,50V		219	QCFA1EZ-104	CAPACITOR	0.1 μ F,25V
C160	QCYA1HK-223	CAPACITOR			213	QUI AILL 194		
C161	QETC1 CM-476	E CAPACITOR	47 μ F,16V					
C162	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	L		PU48530-271J	COIL	270 μ H
C163	QCYA1HK-223	CAPACITOR	0.022 μ F,50V		2	PU48530-271J	COIL	270 μ H
C164	QETC1CM-476	E CAPACITOR	47 μ F,16V		3	PU50277	COIL	
C165	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	L	.4	PU48530-271J	COIL	270 μ H
C166	QETC1 CM-476	E CAPACITOR	47 μ F,16V					
C167	QCYA1HK-223	CAPACITOR	0.022 µ F,50V		21	PU50277	COIL	
C168	QCYA1HK-223	CAPACITOR	0.022 μ F,50V		22	PU48530-271J	COIL	27 0 μ H
C169	QCYA1HK-223	CAPACITOR	0.022 µ F,50V		23	PU48530-271J	COIL	270 μ H
C170	QCYA1HK-223	CAPACITOR	0.022μ F,50V		25	PU48530-271J	COIL	270 μ H
					.26	PU50277	COIL	ana 11
C171	QCYA1HK-223	CAPACITOR	0.022μ F,50V		27	PU48530-271J	COIL	27 0 μ H
C172	QETC1 EM-107	E CAPACITOR	100 μ F,25V		28	PU48530-271J	COIL	270 μ H
C173	QEZ0139-107Z	E CAPACITOR	100 μ F		.29	PU48530-271J	COIL	270 μ H
C174	QEZ0139-107Z	E CAPACITOR	100 μ F	1	.30	PU50277	COIL	
C175	QEZ0139-107Z	E CAPACITOR	100 μ F					
C176	QCYA1HK-223	CAPACITOR	0.022 μ F,50V	1	.31	PGZ01998	COIL	
C177	QETC1 CM-106	E CAPACITOR	10 μ F,16V		32	PGZ01990	COIL	
C178	QCYA1HK-223	CAPACITOR	0.022 μ F,50V		.33	PU50277	COIL	
C179	QETC1 EM-476	E CAPACITOR	47 μ F,25V		.34	PGZ01998	COIL	
C180	QFV11HJ-104	MM CAPACITO	R 0.1 μ F,50V	L	.35	PGZ01990	COIL	
C181	QCYA1HK-223	CAPACITOR	0.022 μ F,50V					12
C183	QFV11HJ-104	MM CAPACITO	R 0.1 μ F,50V	A	(1	PEVB0335	CRYSTAL RESONA	TOR
C184	QFV11HJ-104	MM CAPACITO	R 0.1 μ F,50V					
C185	QFV11HJ-154	TF CAPACITOR	0.15 μ F,50V					
C186	QFV11HJ-154	TF CAPACITOR	0.15 μ F,50V	A k	(1	PU60281-2Z	FERRATE BEADS,	
C187	QFV11HJ-154	TF CAPACITOR	0.15 μ F,50V	A K	(3	PGZ02003	FERRITE CORE, X	
C188	QETC1HM-475	E CAPACITOR	4.7 μ F,50V					
C189	QETC1HM-475	E CAPACITOR	4.7 μ F,50V					
C190	QETC1 HM-475	E CAPACITOR	4.7 μ F,50V	A F	151	PQ45789	HEAT SINK, ×3	
C 191	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V					
C192	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V		CW1	SBSB3008Z	SCREW, × 2	
C193	QCYA1HK-472	CAPACITOR	0.0047 μ F,50V		CW2	SBSB3010Z	SCREW, ×4	
C194	QETC1 VM-227	E CAPACITOR	220 μ F,35V					
3								

#_^	REF No.	PART No.	PART NAME, DESCRIPTION	#≜REF No.	PART No.	PART NAME, DE	SCRIPTION
	SKT1	PGZ01724-028	IC SOCKET	D2	DA204K	DIODE	
	OKI	1020		D3	DA204K	DIODE	
				D4	DA204K	DIODE	
	SLD2	PRS20010	SHIELD CASE	D5	DA204K	DIODE	
	TP1	SQMX001-001Z	TEST PIN, ×7	R6	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	11	OCIVIAGO OS 12	, 20. 1 111,	R7	QRSA08J-101YN	RESISTOR	100 Ω ,1/10W
				R8	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	CN1	PU59973-18	CONNECTOR	R9	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	CN2	PU59555-3	CONNECTOR	R10	QRSA08J-101YN	RESISTOR	100Ω , $1/10W$
	CN3	PU59555-8	CONNECTOR				
	CN4	PU59555-6	CONNECTOR	R11	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
		PU59555-10	CONNECTOR	R12	QRSA08J-101YN	RESISTOR	100 Ω ,1/10W
	CN5			R13	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	CN6	PU59555-5	CONNECTOR				
	CN7	PU59973-18	CONNECTOR	R14	QRSA08J-101YN	RESISTOR	$100 \Omega, 1/10W$
	CN8	PU59555-104	CONNECTOR	R15	QRSA08J-101YN	RESISTOR	$100 \Omega, 1/10W$
				R16	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	CN21	PU59555-5	CONNECTOR	R17	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
			CONNECTOR	R18	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	CN22	PU59555-4			QRSA08J-101YN		
	CN23	PU59555-2	CONNECTOR	R19		RESISTOR	100 Ω ,1 / 10W
	CN24	PU59555-2	CONNECTOR	R20	QRSA08J-101YN	RESISTOR	$100 \Omega, 1/10W$
	CN25	PU59555-6	CONNECTOR				
	CN26	PU59555-9	CONNECTOR	R21	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
		PU59555-4	CONNECTOR	R22	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W
	CN27			R23	QRSA08J-101YN	RESISTOR	100 Ω,1/10W
	CN28	PU59555-3	CONNECTOR				
	CN29	PU59555-10	CONNECTOR	R24	QRSA08J-101YN	RESISTOR	$100 \Omega, 1/10W$
	CN30	PU59555-7	CONNECTOR	R25	QRSA08J-101YN	RESISTOR	$100 \Omega / 1 / 10W$
				R26	QRSA08J-101YN	RESISTOR	100 Ω,1/10W
	CN31	PU59555-10	CONNECTOR	R27	QRSA08J-101YN	RESISTOR	110 Ω ,1/10W
			CONNECTOR	R28	QRSA08J-101YN	RESISTOR	110 Ω,1/10W
	CN32	PU59555-7	COMMECTOR				
			,	R29	QRSA08J-101YN	RESISTOR	110 Ω,1/10W
	CP1	ICP-F10	CIRCUIT PROTECTOR	R30	QRSA08J-101YN	RESISTOR	110 Ω.1/10W
Δ			CIRCUIT PROTECTOR	R31	QRSA08J-101YN	RESISTOR	110 Ω ,1/10W
Δ	CP2	ICP-F10		1			
Δ	CP3	ICP-F10	CIRCUIT PROTECTOR	R32	QRSA08J-101YN	RESISTOR	110 Ω,1/10W
				R33	QRSA08J-101YN	RESISTOR	100 Ω,1/10W
				R34	QRSA08J-101YN	RESISTOR	$100 \Omega, 1/10W$
			•	R35	QRSA08J-102YN	RESISTOR	1k Ω ,1/10W
_				R36	QRSA08J-101YN	RESISTOR	110 Ω ,1/10W
	SYSCO	N BOARD AS	SEMBLY <31>	R37	QRSA08J-0R0Y	RESISTOR	0 Ω,1/10W
				R41	QRSA08J-101YN	RESISTOR	110 Ω ,1 ∕ 10W
	PWBA	PRK20214C-01	SYSCON BOARD ASSY, BR-S800	R42	QRSA08J-101YN	RESISTOR	110 \Q ,1 / 10W
	PWBA	PRK20214D-01	SYSCON BOARD ASSY, BR-S500	R43	QRSA08J-101YN	RESISTOR	110 \Q.1 / 10W
	PAARA	PHAZUZIADAI	STOOM BOATE ACT, DITCH		QRSA08J-101YN	RESISTOR	1(0 Ω ,1 / 10W
			•	R45			
				R46	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
			t A		ODCARS L222VM	RESISTOR	31kΩ,1/10W
	IC1	SC78148GF-026	IC	R50	QRSA08J-333YN		
	IC1	*		R50	UNSAU0J-333 1 N		
	IC2	M27C512-15F1	IC				31k Ω .1 / 10W
	IC2	M27C512-15F1 PGD30620C-15-1	IC IC	R51	QRSA08J-333YN	RESISTOR	31k \O ,1/10W
	IC2 IC2 IC3	M27C512-15F1 PGD30620C-15-1 BR24C01AF	IC IC IC	R51 R52	QRSA08J-333YN QRSA08J-333YN	RESISTOR RESISTOR	3kΩ,1/10W
	IC2 IC2 IC3 IC4	M27C512-15F1 PGD30620C-15-1 BR24C01AF TC74HC373AF	IC IC IC	R51 R52 R53	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN	RESISTOR RESISTOR RESISTOR	3kΩ,1/10W 3kΩ,1/10W
	IC2 IC2 IC3	M27C512-15F1 PGD30620C-15-1 BR24C01AF	IC IC IC IC	R51 R52 R53 R55	QRSA08J-333YN QRSA08J-333YN	RESISTOR RESISTOR RESISTOR RESISTOR, BR-S500	3kΩ,1/10W 3kΩ,1/10W 4kΩ,1/10W
	IC2 IC2 IC3 IC4 IC5	M27C512-15F1 PGD30620C-15-1 BR24C01AF TC74HC373AF	IC IC IC	R51 R52 R53	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN	RESISTOR RESISTOR RESISTOR	3kΩ,1/10W 3kΩ,1/10W
	IC2 IC2 IC3 IC4 IC5 IC6	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF	IC IC IC IC IC	R51 R52 R53 R55 R56	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR	3k \(\O , 1 \setminus 1 \setminus 1 \) 3k \(\O , 1 \setminus 1 \setminus 1 \) 4k \(\O , 1 \setminus 1 \setminus 1 \)
	IC2 IC2 IC3 IC4 IC5 IC6 IC7	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC00AF	IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-473YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR	3k\),1/10W 3k\),1/10W 4k\),1/10W 4k\),1/10W 4k\),1/10W
	IC2 IC3 IC4 IC5 IC6 IC7 IC8	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC04AF TC74HC30AF	IC IC IC IC IC	R51 R52 R53 R55 R56	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR	3k \(\O , 1 \setminus 1 \setminus 1 \) 3k \(\O , 1 \setminus 1 \setminus 1 \) 4k \(\O , 1 \setminus 1 \setminus 1 \)
	IC2 IC2 IC3 IC4 IC5 IC6 IC7	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC00AF	IC IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-473YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR	3k\),1/10W 3k\),1/10W 4k\),1/10W 4k\),1/10W 4k\),1/10W
	IC2 IC3 IC4 IC5 IC6 IC7 IC8	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC04AF TC74HC30AF	IC IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57 R60	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-473YN QRSA08J-183YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR RESISTOR RESISTOR	3k\(\Omega\),1/10W 3k\(\Omega\),1/10W 4k\(\Omega\),1/10W 4k\(\Omega\),1/10W 1k\(\Omega\),1/10W 2k\(\Omega\),1/10W
	IC2 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC00AF TC74HC30AF M61957BFP	IC IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57 R60	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-473YN QRSA08J-183YN QRSA08J-273YN QRSA08J-473YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	3k\(\Omega\),1/10W 3k\(\Omega\),1/10W 4k\(\Omega\),1/10W 4k\(\Omega\),1/10W 1k\(\Omega\),1/10W 2k\(\Omega\),1/10W 4k\(\Omega\),1/10W
	IC2 IC3 IC4 IC5 IC6 IC7 IC8	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC04AF TC74HC30AF	IC IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57 R60	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-183YN QRSA08J-183YN QRSA08J-273YN QRSA08J-473YN QRSA08J-473YN QRSA08J-102YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	3k\(\Omega\),1/10W 3k\(\Omega\),1/10W 4k\(\Omega\),1/10W 4k\(\Omega\),1/10W 1k\(\Omega\),1/10W 2k\(\Omega\),1/10W 4k\(\Omega\),1/10W k\(\Omega\),1/10W
	IC2 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC00AF TC74HC30AF M61957BFP	IC IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57 R60 R61 R62 R64 R65	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-183YN QRSA08J-183YN QRSA08J-273YN QRSA08J-473YN QRSA08J-102YN QRSA08J-473YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	3k\(\Omega\),1/10\(\Omega\) 3k\(\Omega\),1/10\(\Omega\) 4k\(\Omega\),1/10\(\Omega\) 4k\(\Omega\),1/10\(\Omega\) 2k\(\Omega\),1/10\(\Omega\) 4k\(\Omega\),1/10\(\Omega\) 4k\(\Omega\),1/10\(\Omega\) 4k\(\Omega\),1/10\(\Omega\)
	IC2 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9	M27C512-15F1 PGD30820C-15-1 BR24C01AF TC74HC373AF TC74HC00AF TC74HC00AF TC74HC00AF TC74HC30AF M61957BFP	IC IC IC IC IC IC IC	R51 R52 R53 R55 R56 R57 R60	QRSA08J-333YN QRSA08J-333YN QRSA08J-333YN QRSA08J-473YN QRSA08J-473YN QRSA08J-183YN QRSA08J-183YN QRSA08J-273YN QRSA08J-473YN QRSA08J-473YN QRSA08J-102YN	RESISTOR RESISTOR RESISTOR, BR-S500 RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	3k\(\Omega\),1/10W 3k\(\Omega\),1/10W 4k\(\Omega\),1/10W 4k\(\Omega\),1/10W 1k\(\Omega\),1/10W 2k\(\Omega\),1/10W 4k\(\Omega\),1/10W k\(\Omega\),1/10W

	PART No.	PART NAME, DES		11 7.7 4 80.2	No. PART No.	PART NAME, DE	
R68	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C20	QCYA1HK-221	CAPACITOR	220pF,50\
R69	QRSA08J-473YN	RESISTOR	47kΩ ,1/10W				
R70	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	C21	QCYA1HK-221	CAPACITOR	220pF,50\
				C23	QCYA1HK-221	CAPACITOR	220pF,50\
R71	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W	C26	QCYA1HK-103	CAPACITOR	0.01 μ F,50\
R72	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	C30	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R73	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W				
R74	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	C31	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R75	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C32	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R76	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C33	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R77	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C34	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R78	QRSA08J-473YN	RESISTOR	47kΩ,1/10W	C35	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R80	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C36	QCYA1HK-102	CAPACITOR	0.001 μ F,50\
R81	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W	C51	QCTA1CH-101	CAPACITOR	100pF,16\
R82	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C52	QCTA1CH-101	CAPACITOR	100pF,16\
R83	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W	C53	QCTA1CH-101	CAPACITOR	100pF,16\
R84	QRSA08J-103YN	RESISTOR	10kΩ .1/10W	C54	QCTA1CH-101	CAPACITOR	100pF,16\
R85	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W	C55	QCTA1CH-101	CAPACITOR	100pF,16\
R86	QRSA08J-103YN	RESISTOR	10kΩ 1/10W	C56	QCTA1CH-101	CAPACITOR	100pF,16\
Nou	QNOMODOTION	TILDIOT OTT	10Ka2 /17 1088	C57	QCTA1CH-101	CAPACITOR	100pF,16\
R91	QRSA08J-0R0Y	RESISTOR, BR-S800	0Ω,1/10W	C58	QCTA1CH-101	CAPACITOR	100pF,16\
R95	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	C59	QCTA1CH-101	CAPACITOR	100pF,16\
R101	QRSA08J-473YN	RESISTOR	47kΩ ,1/10W	C61	QCTA1CH-101	CAPACITOR	100pF,16\
HIVI	CHOROUS 478 FR	(LOIO) OIL	17 Kua 717 1000	C62	QCTA1CH-101	CAPACITOR	100pF,16\
R111	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C63	QCTA1CH-101	CAPACITOR	100pF,16\
	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W	C64	QCTA1CH-101	CAPACITOR	100pF,16\
R112	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C65	QCTA1CH-101	CAPACITOR	100pF,16\
R113		RESISTOR	100 Ω ,1 / 10W	C66	QCTA1CH-101	CAPACITOR	100pF,16\
R114	QRSA08J-101YN		100 Ω ,1 / 10W	C67	QCTA1CH-101	CAPACITOR	100pF,16\
R115	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C68	QCTA1CH-101	CAPACITOR	100pF,16\
R116	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10 W	C69	QCTA1CH-101	CAPACITOR	100pF,16\
R117	QRSA08J-101YN	RESISTOR					100pF,16\
R118	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W	C70	QCTA1CH-101	CAPACITOR	iuupr,io\
R119	QRSA08J-101YN	RESISTOR	100 Ω ,1 / 10W	074	OOTA10U1101	CARACITOR	100
R120	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C71	OCTA1CH-101	CAPACITOR	100pF,16\
	0-010014043/01	DEGLETAD	4000 4 /4014	C72	QCTA1CH-101	CAPACITOR	100pF,16\
R121	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C73	QCTA1CH-181	CAPACITOR	100pF,16\
R122	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C74	QCTA1CH-101	CAPACITOR	100pF,16\
R123	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C75	QCTA1CH-101	CAPACITOR	100pF,16\
R124	QRSA08J-101YN	RESISTOR	100Ω,1/10W	C76	QCTA1CH-101	CAPACITOR	100pF,16\
R125 R126	QRSA08J-101YN QRSA08J-101YN	RESISTOR RESISTOR	100Ω , $1/10W$ 100Ω , $1/10W$	C77	QCTA1CH-101	CAPACITOR	100pF,16\
11120			,,,				
C1	QER61CM-226	E CAPACITOR	22 μ F,16V	L1	PGZ00617-221	COIL	
C2	OCYA1HK-103	CAPACITOR	0.01 μ F,50V				
C3	QCYA1HK-103	CAPACITOR	0.01 μ F,50V		PGZ00513	CERAMIC FILTER	
C4	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	_ ^.	. 0200010		
C5	QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
C6	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	∆ K1	QRD161J-0R0	FERRATE BEADS	
C7	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	∆ K2	PGZ00354	FERRATE BEADS	
			0.01 μ F,50V	/A 1/42	F-0200004	PENNATE BEADS	
C8	QCYA1HK-103 QCYA1HK-103	CAPACITOR CAPACITOR	0.01 μ F,50V				
		01010100	0.04	SKT1	PGZ01724-028	IC SOCKET	
C12	QCYA1HK-103	CAPACITOR	0.01 μ F,50V			•	
C13	QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
C14	QCYA1EK-104	CAPACITOR	0.1 μ F,25V	△ SLD1	PRS30039	SHIELD CASE	
C15	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	SLD2	PGZ01128-02	SPACER, × 2	
C16	QCTA1CH-220	CAPACITOR	22pF,16V				•
C17	QCTA1CH-220	CAPACITOR	22pF,16V				
	AAL 4 4 1 11/ 8 64	CADAGITOD	200-FF61/		DC704007 64		
C18 C19	QCYA1HK-221 QCYA1HK-221	CAPACITOR CAPACITOR	220pF,50V 220pF,50V	CN1	PGZ01937-64	MALE CONNECTOR	

OPERA	TION-CPU BO	ARD ASSEMBL	Y <32>	IC1		M5218AFP-XE1 BA3308F	IC IC, BR-S800	
					2	DAJJUOF	IC, BR-3800	
PWBA	PRK10151A1-02	OPERATION-CPU I	SOARD ASSY	Q1	1	DTA144EK	TRANSISTOR	
				Q1	2	DTC144EK	TRANSISTOR	
				Q1		DTC323TK	TRANSISTOR	
Q 1	DTC144EK	TRANSISTOR		Q1		DTC323TK	TRANSISTOR	
D1	SLV-56YC3F	LE DIODE		D1	1	DAN202K	DIODE	
D2	SLV-56YC3F	LE DIODE		D1		DAN202K	DIODE	
D3	SLV-56 YC3 F	LE DIODE		D1		DAN202K	DIODE	
D6	SLV-56YC3F	LE DIODE			•	DHITCH	DIODE	
	SLV-56 YC3 F	LE DIODE						
D7		LE DIODE		Ra	e	QRSA08J-332YN	DECICTOD DO COM	2 2 10 1 /
D8	SLV-56YC3F	LE DIODE		R3		QRSA08J-392YN	RESISTOR, BR-S800 RESISTOR, BR-S800	
			4000 4 /4000	R3		QRSA08J-105YN	RESISTOR, BR-S800	1MΩ,1/
R2	QRSA08J-121YN	RESISTOR	120 Ω ,1 / 10W	R3		QRSA08J-152YN	RESISTOR, BR-S800	$1.5k\Omega$,1/
R3	QRSA08J-121YN	RESISTOR	120 Ω ,1 / 10W	R4	U	QRSA08J-152YN	RESISTOR, BR-S800	1.5kΩ,1/
R20	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R4	1	QRSA08J-823YN	RESISTOR, BR-S800	82kΩ,1/
R21	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R4	2	QRSA08J-221YN	RESISTOR, BR-S800	220 Ω ,1/
R22	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W					
R23	QRSA08J-681YN	RESISTOR	680 Ω ,1/10W	R5	1	QRSA08J-222YN	RESISTOR	2.2kΩ,1/
1120	Citionists of the			R5		QRSA08J-472YN	RESISTOR	4.7kΩ,1/
				R5		QRSA08J-222YN	RESISTOR	2.2kΩ,1/
C1	QER61CM-476	E CAPACITOR	47 μ F,16V	R5		QRSA08J-330YN	RESISTOR	13 Ω ,1/
		CAPACITOR	0.022 μ F,50V	R5		QRSA08J-103YN		
C2	QCYA1HK-223						RESISTOR	11kΩ,1/
C3 C4	QER61CM-476 QCYA1HK-223	E CAPACITOR CAPACITOR	47 μ F,16V 0.022 μ F,50V	R6	U	QRSA08J-103YN	RESISTOR	10k Ω ,1/
•				R6	1	QRSA08J-330YN	RESISTOR	13 Ω ,1/
	•			R6	4	QRSA08J-104YN	RESISTOR	100k Ω .1/
L1	PGZ00617-221	COIL		R6		QRSA08J-104YN	RESISTOR	101k Ω.1/
L2	PGZ00617-221	COIL		R6		QRSA08J-104YN	RESISTOR	101kΩ,1/
	10200077 ==-			△ R6		QRZ0077-101X	FUSIBLE RESISTOR	10 0 Ω ,1/
				R6		QRSA08J-104YN	RESISTOR	100k Ω.1/
MET1	PGZ01337-02	METER						
MET2	PGZ01336-02	METER						
	1 0201000 0-			VF	211	PGZ01964	V RESISTOR, BR-S81	10
				VF		PGZ01964	V RESISTOR, BR-S86	
SPC1	PRD30597	SHADE, ×2 (FOR	METER)	VF		PGZ01964	V RESISTOR, BR-S80	
01 01	111000007	onney (101)	141-1-117	VF		PGZ01964	V RESISTOR, BR-S80	
				VF		PGZ01966	V RESISTOR	
CNI	DC701049 10	CONNECTOR		VF		PGZ01965	V RESISTOR	
CN1	PGZ01942-10			V.	110	FG201303	A VESION	
CN2	PGZ01942-10	CONNECTOR						
CN3	PGZ01942-10	CONNECTOR			74	OD0400 1404141	DEGISTOR	400 0 4 4
CN4	PGZ01942-10	CONNECTOR		R1		QRSA08J-121YN	RESISTOR	120 Ω ,1/
CN5	PU59973-18	CONNECTOR		R1		QRSA08J-121YN	RESISTOR	$120 \Omega ,1/$
CN6	PU59973-24	CONNECTOR		R1		QRSA08J-121YN	RESISTOR	$120 \Omega ,1/$
CN7	PU59973-18	CONNECTOR		R1		QRSA08J-121YN	RESISTOR	120 \\ \(\overline{1}\)
				R1	75	QRSA08J-121YN	RESISTOR	120 \$2.1/1
				R1	76	QRSA08J-121YN	RESISTOR	120 \$\Omega\$.1/1
OPERA	TION VP BOA	RD ASSEMBLY	<33>	R1		QRSA08J-0R0Y	RESISTOR	12,1/1
UPERA	TION-AN DOW	IND AGGENIBL I	133/	R1	82	QRSA08J-0R0Y	RESISTOR	10,1/
				R1	83	QRSA08J-0R0Y	RESISTOR	10.1/1
				R1		QRSA08J-0R0Y	RESISTOR	19.1/1
PWBA	PRK10151A2-02	OPEVR BOARD A	ASSY, BR-S800	R1		QRSA08J-0R0Y	RESISTOR	182,1/1
PWBA	PRK10151B2-02	OPEVR BOARD A		R1		QRSA08J-0R0Y	RESISTOR	10,1/1
	I III/I O I O I DE OF	-, -, , , , , , , , , , , , , , , , , ,	,	R1		QRSA08J-0R0Y	RESISTOR	10,1/1
				1711	•	THE PART AND A LIGHT	- ILUIO I OTI	ا / ایشرح ا
				R18	2.2	QRSA08J-0R0Y	RESISTOR	10.1/1

77 2-3	HEF NO.	PART No.	PART NAME, DESCR	IPTION -	#A REP NO	. PART No.	PART NAME, DESCRIPTION
	F190	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W =	OPER#	TION-SW BOA	ARD ASSEMBLY <34>
	C 7	QCTA1 CH-101	CAPACITOR, BR-S800	100pF,16V			
	C8	QER61 HM-105	E CAPACITOR, BR-S800		PWBA	PRK10151A3-02	OPESW. BOARD ASSY, BR-S800
	C9	QER61CM-476	E CAPACITOR, BR-S800		PWBA	PRK10151B3-02	OPESW. BOARD ASSY, BR-S500
	C10	QCTA1CH-101	CAPACITOR, BR-S800	100pF,16V			
	C11	OCTA1 CH-121	CAPACITOR, BR-S800	120pF,16V	IC21	M50255P	IC
	C12	QER61 CM-106	E CAPACITOR, BR-S800				
	C12	QCTA1CH-101	CAPACITOR, BR-S800	100pF,16V			
	C14	QCYA1HK-103	CAPACITOR, BR-S800	0.01 µ F,50V	Q21	DTB143TK	TRANSISTOR
	C15	QCYA1HK-103	CAPACITOR, BR-S800	0.01 μ F,50V	Q22	DTB143TK	TRANSISTOR
	Cla	QC A IIIIC IUU	טתו תטווטוון בוו טטטט	100,120,120	Q23	DTB143TK	TRANSISTOR
	CEI	QCYA1HK-103	CAPACITOR	0.01 μ F,50V	024	DTB143TK	TRANSISTOR
	C52	QER61 AM-476	E CAPACITOR	47 μ F,10V	Q25	DTB143TK	TRANSISTOR
	C53	QER61 CM-475	E CAPACITOR	4.7 μ F,16V	026	DTB143TK	TRANSISTOR
	C57	QER61 CM-475	E CAPACITOR	4.7 μ F,16V	027	DTB143TK	TRANSISTOR
	C58		E CAPACITOR	47 μ F,16V	Q28	DTB143TK	TRANSISTOR
	C59	QER61 CM-476	E CAPACITOR	47 μ F,10V	Q29	DTC144EK	TRANSISTOR
	C60	QER61 AM-476	E CAPACITOR	41 μ Γ,104	G30	DTC144EK	TRANSISTOR
		DOTAL 470	CLIDE CIVITOU	İ	Q31	DTC144EK	TRANSISTOR
	SW1	PGZ01478	SLIDE SWITCH		Q32	DTC144EK	TRANSISTOR
	SW2	PGZ00470-02	SLIDE SWITCH		Q32	DTC144EK	TRANSISTOR
	SW3	PGZ00469-02	SLIDE SWITCH				
	SW4	PGZ00469-02	SLIDE SWITCH, BR-S801	,	Q34	DTC144EK	TRANSISTOR
	SW5	PGZ00470-02	SLIDE SWITCH		Q35	DTC144EK	TRANSISTOR
	SW6	PGZ00469-02	SLIDE SWITCH		O36	DTC144EK	TRANSISTOR
			FEDDATE DEADS		D31	SLR-55MC3F	LE DIODE
Δ	K1	PGZ00354	FERRATE BEADS		D31	SLR-55MC3F	LE DIODE
$\mathbf{\Phi}$	K2	PGZ01976	FERRATE BEADS FERRATE BEADS		D32	SLR-55MC3F	LE DIODE
Δ	K3	PGZ01976	FERRATE BEADS		D34	SLR-55MC3F	LE DIODE
Δ	K4	PGZ00354	FERRATE BEADS		D35	SLR-55MC3F	LE DIODE
lacktriangle	K5	PGZ01976	N FILTER		D36	SLR-55MC3F	LE DIODE
	K6	PGZ01976			D37	SLR-55MC3F	LE DIODE
	K7	PGZ01976	N FILTER		D38	GL-8TR21	LE DIODE
	K8	PGZ01976	N FILTER		D39	GL-8TR21	LE DIODE, BR-S80
					D40	GL-8TR21	LE DIODE, BR-S80
Δ	BKT1	PRD44290-01-01	BRACKET, (FOR VR),	BR-S800	D40	GL-01H21	LE DIODE, BR-XXII
	-111				D41	GL-8TR21	LE DIODE
					D42	GL-8TR21	LE DIODE
	J 1	PU60664	MINI JACK		D43	GL-8TR21	LE DIODE
	J2	PU60664-3	MINI JACK, BR-S800		D44	GL-8TR21	LE DIODE
	J 3	PGZ01516	FEMALE CONNECTOR		D45	GL-8TR21	LE DIODE
	J4	PGZ01947	1P JACK		D46	GL-8TR21	LE DIODE
					D61	DAN202K	DIODE
	SCW1	SDSF3010Z	SCREW		D62	DAN202K	DIODE
	•				D63	DAN202K	DIODE
					D64	DAN202K	DIODE
	SPC1	PU60010	SPACER, × 2		D65	DAN202K	DIODE
	O , O .	,			D66	DAN202K	DIODE
					D67	DAN202K	DIODE
$\mathbf{\Lambda}$	VA1	PU49624-2	VARISTOR		D68	DAN202K	DIODE
					D81	DAN202K	DIODE
	CN11	PU60711-118	CONNECTOR	ł	D82	DAN202K	DIODE
	CN12	PU60711-116	CONNECTOR		D83	DAN202K	DIODE
	CNIZ	F-000/11-144	VOITILLOTOTT		D84	DAN202K	DIODE
						DAN202K	
				i	D85	DANZUZN	DIODE

Description Description	#≜REF No	o. PART No.	PART NAME,	DESCRIPTION	#≜REF No	o. PART No.	PART NAME, DE	SCRIPTION
DR2 LB-932VPF2 LE DIODE DR3 LB-932VPF2 LE DIODE DR3 LB-932VPF2 LE DIODE DR3 LB-932VPF2 LE DIODE DR3 LB-932VPF2 LE DIODE DR3 LB-932VPF3 LB-932VP53 LB-932	D91	LB-302VF2			OPER/	TION-DIAL B	OARD ASSEMBL	Y <35>
PART CRAMB-J-211YN RESISTOR 228 Q.1./10W RESISTOR 229 Q.1./10W RESISTOR 229 Q.1./10W RESISTOR 229 Q.1./10W RESISTOR 229 Q.1./10W RESISTOR 229 Q.1./10W RESISTOR 229 Q.1./10W RESISTOR 239 Q.1./10W RESISTOR 247 Q.1.	D92	LB-302VF2	LE DIODE		OI LIU	THOR BIAL S		(00)
R71			LE DIODE					
Prince	D 30				DIAIDA	DDV10151 AA 02	OPERATION DIAL	BOARD ASSV
Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceed Proceding Proceding Proceed	⁷ D71	ORSANS,I-221 YN	RESISTOR	220Ω.1/10W	PVVDA	FNNIUIDIA4-UZ	OFENATION-DIAL	BOAND AGOT
PRIA ORSABBL-121YN RESISTOR 220 0.1.7 INV PRIA ORSABBL-121YN RESISTOR 220 0.1.7 INV PRIA ORSABBL-121YN RESISTOR 220 0.1.7 INV PRIA ORSABBL-121YN RESISTOR 220 0.1.7 INV PRIA ORSABBL-121YN RESISTOR 220 0.1.7 INV PRIA ORSABBL-121YN RESISTOR 4.7k0.1.7 INV PRIA ORSABBL-121YN RESISTOR 4.7k0.1.7 INV PRIA ORSABB-1412YN RESISTOR 4.7k0.1.7 INV ORSABB-1412YN RESISTOR 4.7k0.1.7 INV ORSABB-1412YN RESISTOR 4.7k0.1.7 INV ORSABB-1412YN ORSABB-1412YN RESISTOR 2200.1.7 INV ORSABB-1412YN ORSABB-1412YN RESISTOR 2200.1.7 INV ORSABB-1412YN ORSAB								
REAL CRASHAL 221 YA RESISTOR 220 0.1 / 10W RESISTOR 4.7k 0.					SW31	PGZ00153-1-1	ROTARY CODE SV	VITCH
Pris ORSABB_121YN RESISTOR 220 G_1/10W					• • • • • • • • • • • • • • • • • • • •	, 0200100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
REAR BOARD ASSEMBLY A A A A A A A A A								
Pr7								
Pipe ORSABB_1-271VN RESISTOR 4.7kG_1.710W ORSABB_1-472VN								
R78	R77				REAR	BOARD ASSE	MBLY <40>	
R81 ORSA88J472YN RESISTOR 4.7kΩ 1./10W PWBA PRK20234E-01 REAR BOARD ASSY	R78							
R80 QRSA88J472YN RESISTOR 4.7kQ.1./19W PWBA PRK29234E-01 REAR BOARD ASSY RESISTOR 4.7kQ.1./19W PWBA PRK29234E-01 REAR BOARD ASSY REAR BOARD ASSO REAR BOARD ASSY REAR BOARD ASSO	R79	QRSA08J-472YN	RESISTOR					
REAL ORSABB_J-72YN RESISTOR 4.7kQ_1/10W		QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W				
R82 GRSA08J-472YN RESISTOR A.7kQ.1/-10W R83 GRSA08J-472YN RESISTOR A.7kQ.1/-10W R84 GRSA08J-472YN RESISTOR A.7kQ.1/-10W R85 GRSA08J-472YN RESISTOR A.7kQ.1/-10W R85 GRSA08J-472YN RESISTOR A.7kQ.1/-10W R86 GRSA08J-472YN RESISTOR A.7kQ.1/-10W R87 GRSA08J-472YN RESISTOR A.7kQ.1/-10W D1 R010ES-T181 ZENER DIODE, BR-S800 D2 R87 GRSA08J-101YN RESISTOR 100Q.1/-10W D2 R010ES-T181 ZENER DIODE, BR-S800 D3 R010ES-T181 ZENER DIODE, BR-S800 D4 R010ES-T181 ZENER DIODE					PWBA	PRK20234E-01	REAR BOARD ASS	SY
R82	R81	ORSA08J-472YN	RESISTOR	4.7kΩ,1/10W	PWBA	PRK20234F-01	REAR BOARD ASS	SY
R83 GRSAB3-472YN RESISTOR 4.7kg. 1/10W R85 GRSAB3-472YN RESISTOR 4.7kg. 1/10W R85 GRSAB3-472YN RESISTOR 4.7kg. 1/10W R85 GRSAB3-472YN RESISTOR 4.7kg. 1/10W R87 GRSAB3-1472YN RESISTOR 4.7kg. 1/10W R87 GRSAB3-1472YN RESISTOR 4.7kg. 1/10W D1 RD10ES-T181 ZENER DIODE, BR-S800 ZENER DIODE, BR			-					
R84								
Residence Resistor Resisto					SCW1	SDSF3010R	SCREW. ×8(S800)	. × 6(S500)
R88					33	020,001011	•••••	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R87 QRSA08J-101YN RESISTOR 100 Q 1/10W D1 RD10ES-T181 ZENER DIODE, BR-S300 R88 QRSA08J-101YN RESISTOR 200 Q 1/10W D3 RD10ES-T181 ZENER DIODE, BR-S300 R91 QRSA08J-221YN RESISTOR 220 Q 1/10W D4 RD10ES-T181 ZENER DIODE, BR-S300 R83 QRSA08J-221YN RESISTOR 220 Q 1/10W D6 RD10ES-T181 ZENER DIODE BR-S300 ZENER DIODE RRSS00 ZENER DIODE ZE								
R88					D1	DD10EC T1D1	TENED DIODE DO	COUN
Residence Re								
R91	R88	QRSA08J-101YN	RESISTOR	100 17 10 W				
R92 GRSA08J-221YN RESISTOR 220 Q.1 / 10 W D6 RD10ES-T181 ZENER DIODE							·	
R93	R91	QRSA08J-221YN	RESISTOR		1			-S800
P83	R92	QRSA08J-221YN		220Ω , $1/10W$	i e			
R94 QRSA08J-221YN RESISTOR 220Q.1/10W D8 RD10ES-T181 ZENER DIODE R95 QRSA08J-221YN RESISTOR 220Q.1/10W D9 RD10ES-T181 ZENER DIODE RP-500 R97 QRSA08J-221YN RESISTOR 220Q.1/10W D9 RD10ES-T181 ZENER DIODE RP-500 R97 QRSA08J-221YN RESISTOR 220Q.1/10W D10 RD10ES-T181 ZENER DIODE RP-500 R98 QRSA08J-221YN RESISTOR 220Q.1/10W D10 RD10ES-T181 ZENER DIODE RP-500 R98 QRSA08J-221YN RESISTOR 220Q.1/10W D10 RD10ES-T181 ZENER DIODE RP-500 ZENER DIODE RP-500 RD10ES-T181 ZENER DIODE ZENER DIODE		QRSA08J-221YN	RESISTOR	220 Ω ,1/10W	D6	RD10ES-T1B1	ZENER DIODE	
R95 QRSA08J-221YN RESISTOR 220 Q.1/10W D8 RD10ES-T181 ZENER DIODE RPS800 R				220 Ω ,1 / 10W	D7	RD10ES-T1B1	ZENER DIODE	
R86 QRSA08J-221YN RESISTOR 220 Q.1 / 10 W P87 QRSA08J-221YN RESISTOR 220 Q.1 / 10 W D10 RD10ES-T181 ZENER DIODE, BR-S800 R98 QRSA08J-221YN RESISTOR 220 Q.1 / 10 W D10 RD10ES-T181 ZENER DIODE, BR-S800 RD10ES-T181 ZENER DIODE, BR-S800 D12 RD10ES-T181 ZENER DIODE, BR-S800 D13 RD10ES-T181 ZENER DIODE D14 RD10ES-T181 ZENER DIODE D15 RD10ES-T181 ZENER DIODE D16 RD10ES-T181 ZENER DIODE D16 RD10ES-T181 ZENER DIODE D16 RD10ES-T181 ZENER DIODE D17 RD10ES-T181 ZENER DIODE D18 RD10ES-T181 ZENER DIODE D19 RD10ES-T181 ZENER DIODE RD10E			-	220 Ω .1 / 10W	D8	RD10ES-T1B1	ZENER DIODE	
R87 QRSA08J-221YN RESISTOR 220 Q.1 / 10 W R10 RESISTOR 220 Q.1 / 10 W R10 RESISTOR R15 RESISTO					D9	RD10ES-T1B1	ZENER DIODE, BR	-S800
RESISTOR 220 Ω,1 / 10W D11 RD10ES-T1B1 ZENER DIODE, BR-\$800 D12 RD10ES-T1B1 ZENER DIODE BR-\$800 D14 RD10ES-T1B1 ZENER DIODE D15 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D17 RD10ES-T1B1 ZENER DIODE D18 RD10ES-T1B1 ZENER DIODE D18 RD10ES-T1B1 ZENER DIODE D18 RD10ES-T1B1 ZENER DIODE D19 RD10ES-T1B1 ZENER DIODE RD10								
C71 QCYA1HK-103 CAPACITOR 0.01 μ F,50V D12 RD10ES-T1B1 ZENER DIODE, BR-S800 D12 RD10ES-T1B1 ZENER DIODE BR-S800 D13 RD10ES-T1B1 ZENER DIODE D14 RD10ES-T1B1 ZENER DIODE D15 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE ZENER DIODE D17 RD10ES-T1B1 ZENER DIODE ZENER DIODE ZENER DIODE D18 RD10ES-T1B1 ZENER DIODE ZENER								
C71	Ras	URSAUGJ-221 114	NESISTON	220 64 ,1 / 1011	D11	RD18ES.T1R1	ZENER DIODE RE	2.5800
C71 QCYA1HK-103 CAPACITOR 0.01 μ F,50V D13 RD10ES-T1B1 ZENER DIODE D14 RD10ES-T1B1 ZENER DIODE D15 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D16 RD10ES-T1B1 ZENER DIODE D17 RD10ES-T1B1 ZENER DIODE D18 RD10ES-T1B1 ZENER DIODE D19 RD10ES-T1B1 Z								
SW11				0.04 5501/				10000
SW11	C71	QCYA1HK-103	CAPACITOR	U.UI μ F,5UV				
SW11 PESW0525-02Z TACT SWITCH D16 RD10ES-T1B1 ZENER DIODE SW12 PESW0525-02Z TACT SWITCH D17 RD10ES-T1B1 ZENER DIODE SW13 PESW0525-02Z TACT SWITCH D18 RD10ES-T1B1 ZENER DIODE SW14 PESW0525-02Z TACT SWITCH D19 RD10ES-T1B1 ZENER DIODE SW15 PESW0525-02Z TACT SWITCH D20 RD10ES-T1B1 ZENER DIODE SW16 PESW0525-02Z TACT SWITCH D21 RD10ES-T1B1 ZENER DIODE SW17 PESW0525-02Z TACT SWITCH D22 RD10ES-T1B1 ZENER DIODE, BR-S800 SW19 PESW0525-02Z TACT SWITCH D23 RD10ES-T1B1 ZENER DIODE SW20 PESW0525-02Z TACT SWITCH, BR-S800 D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW22 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>	•							•
SW12 PESW0525-02Z TACT SWITCH D17 RD10ES-T1B1 ZENER DIODE SW13 PESW0525-02Z TACT SWITCH D18 RD10ES-T1B1 ZENER DIODE SW14 PESW0525-02Z TACT SWITCH D19 RD10ES-T1B1 ZENER DIODE SW15 PESW0525-02Z TACT SWITCH D20 RD10ES-T1B1 ZENER DIODE SW16 PESW0525-02Z TACT SWITCH D21 RD10ES-T1B1 ZENER DIODE SW17 PESW0525-02Z TACT SWITCH D21 RD10ES-T1B1 ZENER DIODE SW18 PESW0525-02Z TACT SWITCH D22 RD10ES-T1B1 ZENER DIODE SW20 PESW0525-02Z TACT SWITCH D23 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24								
SW13 PESW0525-02Z TACT SWITCH D18 RD10ES-T181 ZENER DIODE SW14 PESW0525-02Z TACT SWITCH D19 RD10ES-T1B1 ZENER DIODE SW15 PESW0525-02Z TACT SWITCH D20 RD10ES-T1B1 ZENER DIODE SW16 PESW0525-02Z TACT SWITCH D21 RD10ES-T1B1 ZENER DIODE, BR-S800 SW18 PESW0525-02Z TACT SWITCH D22 RD10ES-T1B1 ZENER DIODE, BR-S800 SW19 PESW0525-02Z TACT SWITCH D23 RD10ES-T1B1 ZENER DIODE, BR-S800 SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800	SW11	PESW0525-02Z	TACT SWITCH		D16	RD10ES-T1B1	ZENER DIODE	
SW14	SW12	PESW0525-02Z	TACT SWITCH		1			
SW14 PESW0525-02Z TACT SWITCH D19 RD10ES-T181 ZENER DIODE SW15 PESW0525-02Z TACT SWITCH D20 RD10ES-T181 ZENER DIODE SW16 PESW0525-02Z TACT SWITCH D21 RD10ES-T181 ZENER DIODE, BR-S800 SW18 PESW0525-02Z TACT SWITCH D22 RD10ES-T181 ZENER DIODE, BR-S800 SW19 PESW0525-02Z TACT SWITCH D23 RD10ES-T181 ZENER DIODE, BR-S800 SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T181 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D25 RD10ES-T181 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T181 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T181 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T181 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D23 RD10ES-T181 ZENER DIODE, BR-S800	SW13	PESW0525-02Z	TACT SWITCH		D18	RD10ES-T1B1		
SW15		PESW0525-02Z	TACT SWITCH		D19	RD10ES-T1B1	ZENER DIODE	
SW16 PESW0525-02Z TACT SWITCH D21 RD10ES-T1B1 ZENER DIODE, BR-S800 SW18 PESW0525-02Z TACT SWITCH D22 RD10ES-T1B1 ZENER DIODE, BR-S800 SW19 PESW0525-02Z TACT SWITCH D23 RD10ES-T1B1 ZENER DIODE SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D30 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D32 RD10ES-T1B1 ZENER DIODE, BR-S80		PESW0525-02Z	TACT SWITCH		D20	RD10ES-T1B1	ZENER DIODE	
SW17 PESW0525-02Z TACT SWITCH D21 RD10ES-T1B1 ZENER DIODE, BR-S800 SW18 PESW0525-02Z TACT SWITCH D22 RD10ES-T1B1 ZENER DIODE, BR-S800 SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 BPC1 PU50633-3 LED HOLDER, × 9(S800), × 7(S500) D31 RD10ES-T1B1 ZENER DIODE BPC2 PRD44204 LED SPACER, × 7 D33 RD10ES-T1B1								
SW18 PESW0525-02Z TACT SWITCH D22 RD10ES-T1B1 ZENER DIODE, BR-S800 SW19 PESW0525-02Z TACT SWITCH D23 RD10ES-T1B1 ZENER DIODE SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE, BR-S800 SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 HD1 PQ43191 LED HOLDER, × 9(S800), × 7(S500) D31 RD10ES-T1B1 ZENER DIODE SPC1 PU50633-3 LED SPACER, × 7 D33 RD10ES-T1B1 ZENER DIODE SPC2 PRD44204 LED SPACER, × 3 D34 RD10ES-T1B1 ZENER DIODE<					D21	RD10ES-T1B1	ZENER DIODE, BR	-S800
SW19 PESW0525-02Z TACT SWITCH D23 RD10ES-T1B1 ZENER DIODE SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D31 RD10ES-T1B1 ZENER DIODE, BR-S800 HD1 PQ43191 LED HOLDER, × 9 (S800), × 7 (S500) D31 RD10ES-T1B1 ZENER DIODE SPC1 PU50633-3 LED SPACER, × 7 D33 RD10ES-T1B1 ZENE					D22	RD10ES-T1B1	ZENER DIODE, BR	-S800
SW20 PESW0525-02Z TACT SWITCH D24 RD10ES-T1B1 ZENER DIODE SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 BW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 BW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 BW24 PESW0525-02Z TACT SWITCH D30 RD10ES-T1B1 ZENER DIODE, BR-S800 BW24 PESW0525-02Z TACT SWITCH D31 RD10ES-T1B1 ZENER DIODE, BR-S800 BW25 PUSW0525-02Z TACT SWITCH D32 RD10ES-T1B1 ZENER DIODE, BR-S800 BW26 PUSW0525-02Z TACT SWITCH D32 RD10ES-T1B1 ZENER DIOD						RD10ES-T1B1		
D25 RD10ES-T1B1 ZENER DIODE		-						
SW21 PESW0525-02Z TACT SWITCH, BR-S800 D26 RD10ES-T1B1 ZENER DIODE SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 HD1 PQ43191 LED HOLDER, × 9(S800), × 7(S500) D31 RD10ES-T1B1 ZENER DIODE SPC1 PU50833-3 LED SPACER, × 7 D33 RD10ES-T1B1 ZENER DIODE SPC2 PRD44204 LED SPACER, × 3 D34 RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR IS Ω .1 / 6W	5VV2U	PE9880359-055	IACI SWITCH					
SW22 PESW0525-02Z TACT SWITCH, BR-S800 D27 RD10ES-T1B1 ZENER DIODE, BR-S800 SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 SPC1 PU50633-3 LED SPACER, ×7 D32 RD10ES-T1B1 ZENER DIODE SPC2 PRD44204 LED SPACER, ×3 D33 RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR IS Ω .1 / 6W			TAOT CHITCH	DD C000				
SW23 PESW0525-02Z TACT SWITCH D28 RD10ES-T1B1 ZENER DIODE, BR-S800 SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 D31 RD10ES-T1B1 ZENER DIODE D32 RD10ES-T1B1 ZENER DIODE D33 RD10ES-T1B1 ZENER DIODE D33 RD10ES-T1B1 ZENER DIODE D34 RD10ES-T1B1 ZENER DIODE RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR IS Ω .1 / 6W								COUL
SW24 PESW0525-02Z TACT SWITCH D29 RD10ES-T1B1 ZENER DIODE, BR-S800 D30 RD10ES-T1B1 ZENER DIODE, BR-S800 HD1 PQ43191 LED HOLDER, × 9(S800), × 7(S500) D31 RD10ES-T1B1 ZENER DIODE D32 RD10ES-T1B1 ZENER DIODE D32 RD10ES-T1B1 ZENER DIODE D33 RD10ES-T1B1 ZENER DIODE D34 RD10ES-T1B1 ZENER DIODE SPC1 PU50633-3 LED SPACER, × 7 D34 RD10ES-T1B1 ZENER DIODE SPC2 PRD44204 LED SPACER, × 3 D34 RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR								
D30 RD10ES-T1B1 ZENER DIODE, BR-S800		PESW0525-02Z						
HD1 PQ43191 LED HOLDER, × 9(S800), × 7(S500) SPC1 PU50633-3 LED SPACER, × 7 SPC2 PRD44204 LED SPACER, × 3 CN21 PU60711-118 CONNECTOR D31 RD10ES-T1B1 ZENER DIODE D32 RD10ES-T1B1 ZENER DIODE D33 RD10ES-T1B1 ZENER DIODE R1 QRD161J-750 RESISTOR FΩ Ω 1 6W	SW24	PESW0525-02Z	TACT SWITCH					
D32 RD10ES-T1B1 ZENER DIODE					D30	RD10ES-T1B1	ZENER DIODE, BR	I-S800
SPC1 PU50633-3 LED SPACER, ×7 D32 RD10ES-T1B1 ZENER DIODE SPC2 PRD44204 LED SPACER, ×3 D33 RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR IS Ω ,1 / 6W	HD1	PQ43191	LED HOLDER,	×9(\$800), ×7(\$500)	D31	RD10ES-T1B1	ZENER DIODE	
SPC1 PU50633-3 LED SPACER, × 7 D33 RD10ES-T1B1 ZENER DIODE SPC2 PRD44204 LED SPACER, × 3 D34 RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR IS Ω ,1 / 6W					D32	RD10ES-T1B1	ZENER DIODE	
SPC2 PRD44204 LED SPACER, × 3 D34 RD10ES-T1B1 ZENER DIODE CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR IS Ω ,1 / 6W	SPC1	PU50633-3	LED SPACER.	×7	D33	RD10ES-T1B1	ZENER DIODE	
CN21 PU60711-118 CONNECTOR R1 QRD161J-750 RESISTOR 15Ω,1/6W			·					
0121 1000/11/10			,					
0.121	CN21	PU60711-118	CONNECTOR		R1	QRD161J-750	RESISTOR	15Ω.1/6W

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REF No.	. PART No.	PART NAME, DESC	RIPTION	# <u></u> REF No.	PART No.	PART NAME, DESCRIPTION
21	QCF31 HP-103	CAPACITOR	0.01 μ F,50V	<u>∧</u> T1	PU60321	OSC TRANSFORMER, BR-S800
CO & 14	DC700460 03	SLIDE SWITCH, BR-S50	,	CN1	PU59555-2	CONNECTOR, BR-5800
SW1	PGZ00469-02	SLIDE SWITCH, BR-S80		CN2	PU59555-5	CONNECTOR
W2	PGZ00470-02	SLIDE SWITCH, BR-300		ONE	1 003003 3	COMMEDIAN
вкт1	PRD20482-06	PANEL, BR-S500	-	REC SA	AFETY BOAR	D ASSEMBLY <51>
144	PGZ01531	S-TERMINAL CONNECT	OR BR-5800			
JA1	PGZ01531	S-TERMINAL CONN	011, 511 050	PWBA	PRK20225A2-01	REC SAFE BOARD ASSY, BR-S800
JA2	PGZ01950	3P BNC CONNECTOR,	BB-9500	1 11 22 1	771112022011201	
JA3	-	4P BNC CONNECTOR,				
JA3	PGZ01948	1P JACK	D11-0000	SW1	PU61319	REC SAFETY SWITCH, BR-S800
JA4	PGZ01947	2P JACK, BR-S500		0441	1001013	The GALLIT CHINOLO, SILOSOF
JA5	PGZ01949					
JA5	PGZ01946	4P JACK, BR-S800		CN3	PU59555-102	CONNECTOR, BR-8800
JA6	PGZ01949	2P JACK, BR-S500		CN3	P 003333-102	COMMENTOR, BROWN
IA6	PGZ01946	4P JACK, BR-S800				
SCW1	SDSF3010R	SCREW, ×8(S800), ×	6(\$500)	S-SWIT	CH BOARD	ASSEMBLY <52>
SCW2	SDST3008Z	SCREW, × 2				
SCW3	SDSF3012R	SCREW				
SCW4	WBS3000N	WASHER		PWBA	PRK20225A4	S-SWITCH BOARD ASSY, BR-S800
214	20704040 10	CONNECTOR		SW1	PU61008	CASSETTE SWITCH, BR-S800
CN1	PGZ01942-10	CONNECTOR			1 001000	0/1002.112 01111011, 01110000
CN2	PGZ01942-10	CONNECTOR				
CN3 CN4	PGZ01942-10 PGZ01942-10	CONNECTOR		CN4	PU59555-102	CONNECTOR, BR-300
END S	SENSOR BOAR	D ASSEMBLY <50	>	MODE	MOTOR BOA	RD ASSEMBLY <53>
LIID (JEHOOH DOM	.2 7.002=2.1 490				
				PWBA	PRK20225A3	MODE MOTOR BOARD ASSY
PWBA	PRK20225B1-01	END SENS BOARD AS				
PWBA	PRK20225A1-02	END SENS BOARD AS	SY, BR-5800			AADAGE
				C5	QCF31HP-223	CAPACITOR 0.022 μ F,50
Q 1	2SD1423(RS)	TRANSISTOR, BR-S800		ONE	DIFFEE	CONNECTOR
Q 2	2SB1030R,S	TRANSISTOR, BR-S800		CN5	PU59555-2	CONNECTOR
C3	DTC124ES	TRANSISTOR, BR-5800				
D1	HZ3 BLL	DIODE, BR-S800		CASSE	TTE HOUSING	BOARD ASSEMBLY < 54 >
		D 50107-010 DD 0000	00LO 1 (6W)			
R1	QRD161J-223	RESISTOR, BR-S800	22kΩ,1/6W	DIALDA	DDV202EFA 01	HOUSING BOARD ASSY
R2	QRD161J-6R8	RESISTOR, BR-S800	6.8Ω,1/6W	PWBA	PRK20255A-01	HOUSING BUAND ASSI
R3	QRD161J-473	RESISTOR, BR-S800	47kΩ,1/6W			
R4	QRD161J-472	RESISTOR, BR-S800	4.7kΩ,1/6W	. Q1	PN268VI	PHOTO TRANSISTOR
~	OEN2141222	CAPACITOR, BR-\$800	0 0033 // E 50V			
C1	QFN31HJ-332	CAPACITOR, BR-S800		SW1	YU40177-2	PUSH SWITCH
C2	QFN31HJ-102	CAPACITOR, BR-5800		SW2	YU40177-2	PUSH SWITCH
C3	QFP42AJ-333 QETC1CM-106	E CAPACITOR, BR-S80		0112		
C4	GE! CICIALI00	E OATAGITON, BROOM		ANG	Distance 400	COMMERCE
Proof.	DU04004 4 4	TARE CENCOR		CN1	PU59555-106	CONNECTOR

TAPE SENSOR

PU61321-1-1

PS1

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\triangle	REF No.	PART No.	PART NAME, DESCRIPTION			PART NAME, D	LOCINI HON
	MECHA	-TERMINAL	BOARD ASSEMBLY <55>	a 1	2SK1217-01	FE TRANSISTOR	
				Q37	2SC4081 (QRS)	TRANSISTOR	
	PWBA	PRK20225A5	MECHA TERMINAL BOARD ASS	Y			
				D1	AU01	FR DIODE	
				D2	AU01	FR DIODE	
	CN6	PU59555-9	CONNECTOR	D3	RD27ES-T1B4	ZENER DIODE	
	CN7	PU59555-2	CONNECTOR	D4	RD5.1ES-T1B3	ZENER DIODE	
	CN8	PU59555-2	CONNECTOR	D5	1SS133	DIODE	
			CONNECTOR	D6	RD24ES-T1B3	ZENER DIODE	
	CN9 CN10	PU59555-2 PU59555-3	CONNECTOR	D7	1SR153-200-T2	FR DIODE	
	CHIO	L 000000-0					
				D20	FML-12S	FR DIODE	
_	. /0:	IEAD DO ADD	ACCEMBLY ZEC	D24	FMB-24	BARRIER DIODE	
	A/C	HEAD ROAKE	ASSEMBLY <56>	D27	1SR153-200-T2	FR DIODE	
				D29	FML-12S	FR DIODE	
				D30	HZ22CP	ZENER DIODE	
	PWBA	PRK20225A6	A/C HEAD BOARD ASSY				
				D31	FML-12S	FR DIODE	
				D33	FMB-24	BARRIER DIODE	
	CN11	PU59555-111	CONNECTOR	D36	1SS133	DIODE	n
	OH I	, 000000 111	-	D37	1SS133	DIODE	
				D38	RD6.2ES-T1B3	ZENER DIODE	
	PRIMA	RY BOARD	ASSEMBLY <60>	DA1	RBV-404	DIODE	
	D1417 A	DDV40403.84	PRIMARY BOARD ASSY	R1	8 D-13	POWER TH	
	PWBA	PRK10163A1	PRIMART BUARD ASSI	R2	QRD161J-184	RESISTOR	18 0 kΩ ,1/6\
				1			
			0.0000	R3	QRD161J-154	RESISTOR	15 0 kΩ ,1/6\
	C2	QCZ9016-222M	CAPACITOR 0.0022		QRG032J-104	OMF RESISTOR	100kΩ,3\
	C3	QCZ9016-222M	CAPACITOR 0.0022		QRG032J-104	OMF RESISTOR	100kΩ,3\
				R6	QRSA08J-102YN	RESISTOR	$1k\Omega$, $1/10$
				R7	QRG01 DJ-220 X	OMF RESISTOR	22 Ω ,11
	CL1	PU57505	FUSE CLIP, ×2	R8	QRD161J-221	RESISTOR	2 2 0Ω,1/6\
				R9	QRX014J-R22Z	MF RESISTOR	۱۱, 0.22 Ω
	J5	PU60894-103	TERMINAL	R11	QRX014J-R27Z	MF RESISTOR	0.27 Ω ,1V
	J6	PU60894-103	TERMINAL	R12	QRSA08J-822YN	RESISTOR	8.2 kΩ .1 / 10\
	J7	PU60894-103	TERMINAL	R13	QRSA08J-182YN	RESISTOR	1,8 kΩ ,1 / 10\
	0,	1 000001 100	, 	R14	QRD161J-473	RESISTOR	47kΩ,1/6\
	LF002	PGZ02011	LINE FILTER	R53	QRSA08J-392YN	RESISTOR	19KΩ,1/10\
		*		R69	QRSA08J-331YN	RESISTOR	30 Ω,1/10V
	CN1	PGZ01956-002	CONNECTOR		Annaca 1		
				R76	QRD161J-471	RESISTOR	47 0Ω,1/6V
				R77	QRSA08J-432YN	RESISTOR	$43k\Omega,1/10$
				— R78	QRSA08J-561YN	RESISTOR	160 Ω.1/10V
	SWITC	HING REG. B	OARD ASSEMBLY <61>	R83	QRV144F-9761AY	CMF RESISTOR	\$76 kΩ ,1/4V
				R84	QRV144F-1022AY	CMF RESISTOR	1),2 kΩ,1/4V
				R85	QRSA08J-222YN	RESISTOR	22k Ω ,1/10V
	PWBA	PRK10163A2	SW. REGULATOR BOARD ASSY				
				R101	QRSA08J-0R0Y	RESISTOR, ×4	O Ω,1/10\
				R102	QRSA08J-0R0Y	RESISTOR	D Ω,1/10\
	IC1	FA5311P	IC	R103	QRSA08J-0R0Y	RESISTOR	0 Ω,1/10\
	IC7	BA10358F	ic	R104	QRSA08J-0R0Y	RESISTOR	O Ω,1/10V
	107	PU 141101.		R106	QRSA08J-0R0Y	RESISTOR	D Ω,1/10V
				11100			U 10 /1/ 10

C5 C6 C8 C9	QCZ9016-222M QFZ9022-333	CAPACITOR	0.0022 μ F	HS1	PGZ02010	HEAT SINK	
C8	QFZ9022-333						
		MM CAPACITOR	0.033 μ F,250V	HS2	PRD31020-01-02	HEAT SINK	
C9	PGZ02009	E CAPACITOR					
	QCZ0212-472	CAPACITOR	0.0047 μ F,1kV				
				SCW1	DPSP3006Z	SCREW	
C11	QETC1 HM-474	E CAPACITOR	0.47 μ F,50V	SCW1	SDSG3008Z	SCREW	
C12	QFV11HJ-104	MM CAPACITOR	0.1 μ F,50V	SCW2	SDSP3006Z	SCREW, × 5	
C13	QFLA1HJ-471Z	M CAPACITOR	470pF,50V				
C14	QFV11HJ-104	MM CAPACITOR	0.1 μ F,50V				
C15	QEGC1 EM-336	E CAPACITOR	33 μ F,25V	J8	PEMC0742-008	B TO B CONNECTO	OR
C16	QFV11HJ-394	MM CAPACITOR	0.39 µ F,50V	J9	PEMC0742-010	B TO B CONNECTO	
	QCFA1HZ-472	CAPACITOR	0.0047 μ F,50V	J10	PEMC0742-008	B TO B CONNECTO	
C17 C18	QCZ0136-101Z	CAPACITOR	100pF	J11	PEMC0742-008	B TO B CONNECTO	
		E CAPACITOR	1000 μ F,25V	911	1 111007 72 000	D TO D COMMENT	511
C20	QEGB1 EM-108	E CAPACITOR	1000 µ F,25 V				
C21	QETB1 EM-108	E CAPACITOR	1000 μ F,25V				
C28	QEGB1 AM-278	E CAPACITOR	2700 μ F,10V		4-004	100511111111111111111111111111111111111	
C29	QETB1 AM-228	E CAPACITOR	2200 μ F,10V	REGUL	ATOR BOARD	ASSEMBLY <	62>
CZS	CEI DI AIVI-220	LOALAGITOIT	2200 /2 1 / 100				
C33	QEGB1 EM-127	E CAPACITOR	120 μ F,25V				
C34	QETC1 EM-227	E CAPACITOR	220 μ F,25V	PWBA	PRK10163A3	REGULATOR BOAT	RD ASSY
C39	QEGB1 EM-108	E CAPACITOR	1000 μ F,25V				
C40	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
0.10				∆ ICP1	ICP-F20	CIRCUIT PROTECT	OR
C42	QETC1 EM-477	E CAPACITOR	470 μ F,25V				
C43	QEGB1CM-158	E CAPACITOR	1500 μ F,16V				
	QFV41HJ-473	TF CAPACITOR	0.047 μ F,50V	IC2	BA10358F	IC	
C44	QETB1CM-108	E CAPACITOR	1000 μ F,16V	IC3	BA10358F	ic	
C45				IC4	UPC7912HF	IC	
C46	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V	IC6	BA10358F	IC	
C53	QEGB1CM-687	E CAPACITOR	680 μ F,16V				
C54	QETB1CM-108	E CAPACITOR	1000 μ F,16V				
C59	QFLA1HJ-273Z	M CAPACITOR	0.027 μ F,50V	Q20	2SD1856	TRANSISTOR	
070	PU57601-475ME	E CAPACITOR	4.7 μ F	Q22	2SD1856	TRANSISTOR	
C73	PU57601-106MC	E CAPACITOR	10 μ F	Q23	DTA114EU	TRANSISTOR	
C76	P05/601-100191C	ECAPACITOR	10 μ Γ				
				Q25	DTC114EU	TRANSISTOR	
				Q28	DTC143EU	TRANSISTOR	
L20	PU60944-330K	COIL	33 μ H	004	0000440	TOANOGTOD	
				Q31	2SB941P	TRANSISTOR	
L21	PU60944-330K	COIL	33 μ H	Q32	2SA1515(QR)	TRANSISTOR	
L22	PELN0270-330K2		33 μ H	O36	2SD1856	TRANSISTOR	
L_23	PU60944-330K	COIL	33 μ H	O38	2SA1576 (QRS)	TRANSISTOR	-
L24	PU60944-330K	COIL	33 μ H				
L25	PU60944-330K	COIL	33 μ H				
				D21	DAP202U	DIODE	
				D25	DAP202U	DIODE	
K1	PU60281-2Z	FERRATE BEADS		D26	RD5.1ES-T1B3	ZENER DIODE	
	PU60281-2Z	FERRATE BEADS		520	. In will have it is to	SEITELT DIVUE	
K2		FERRATE BEADS		D34	DAP202U	DIODE	
K3	PU60281-5						
K4	PU60281-2Z	FERRATE BEADS		D35 D40	RD5.1ES-T1B3 1SS133	ZENER DIODE DIODE	
K 21	PU60281-2Z	FERRATE BEADS		2.0	. 25.55		
	PU60281-2Z	FERRATE BEADS		D41	1SS133	DIODE	
K22 K23	PU60281-2Z	FERRATE BEADS		D42	11E2	DIODE	
K24	PU60281-2Z	FERRATE BEADS		D43	1SS133	DIODE	
K25	PU60281-2Z	FERRATE BEADS		D44	1SS133	DIODE	
PC1	PS2501-1	PHOTO COUPLER		R21	QRV144F-7321AY	CMF RESISTOR	7.32kΩ ,1 /
-01	I SEAD I. (R22	QRSA08J-472YN	RESISTOR	$4.7k\Omega$, $1/1$
			i				
			1	R23	QRD161J-432	RESISTOR	4.3kΩ ,1 /

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#_^	REF No.	PART No.	PART NAME, DES	SCRIPTION	#≜REF No.	PART No.	PART NAME, DE	SCRIPTION
	R26	QRD161J-682	RESISTOR	6.8kΩ,1/6W	HS1	PRD31023	HEAT SINK	
	R27	QRD161J-432	RESISTOR	4.3kΩ ,1/6W				
	R34	QRD161J-182	RESISTOR	1.8kΩ,1/6W	SCW1	SDSP3006Z	SCREW	
	R35	QRD161J-752	RESISTOR	7.5kΩ,1/6W	SCW2	SDSP3006Z	SCREW, × 5	
	R36	QRSA08J-472YN	RESISTOR	4.7kΩ ,1/10W				
	R37	QRX014J-R22Z	MF RESISTOR	0.22Ω,1W				
	R38	QRD161J-102	RESISTOR	1kΩ,1/6W	TP1	SQMX001-001Z	TEST PIN, ×2 (TP	1,TP2)
	R39	QRD161J-752	RESISTOR	7.5kΩ,1/6W				
	R40	QRSA08J-123YN	RESISTOR	12kΩ ,1/10W				
	• • • • • • • • • • • • • • • • • • • •				CN4	PU59555-107	CONNECTOR	
	R41	QVPC625-202Z	V RESISTOR	2kΩ	CN5	PU59555-105	CONNECTOR	
	R42	QRSA08J-222YN	RESISTOR	2,2kΩ,1/10W	CN6	PU59555-106	CONNECTOR	
	R43	QRSA08J-102YN	RESISTOR	1kΩ,1/10W				
	R44	QRSA08J-103YN	RESISTOR	10kΩ,1/10W				
	R48	QRSA08J-103YN	RESISTOR	10kΩ,1/10W				
	R49	QRSA08J-822YN	RESISTOR	8.2kΩ ,1/10W				
	T/43	UNOM000-022114	TILDIOTOTT	OLEKS /// TOTA	LINE F	ILTER BOAR	D ASSEMBLY <	64>
	R54	QRSA08J-103YN	RESISTOR	10kΩ,1/10W				
	R55	QRZ0077-470X	FUSIBLE RESISTOR	47Ω,1/4W				
	R57	QRV144F-8451AY		8.45kΩ.1/4W	PWBA	PRK10163A4	LINE FILTER BOAF	RD ASSY
	R58	QRV144F-9761AY		9.76kΩ,1/4W				
	Moo	CHYITHI STOIRI	01111 1122101011	01, 01, 11, 11, 11, 11, 11, 11, 11, 11,				
	R66	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W	∆ C001	QFZ9022-333	MM CAPACITOR	0.033 μ F,250V
	R67	QRD161J-182	RESISTOR	1.8kΩ ,1/6W	△ C002	QFZ9022-333	MM CAPACITOR	0.033 μ F,250V
	R68	QRD161J-752	RESISTOR	7.5kΩ ,1/6W				0,000 11 1,000 1
	R70	QRX014J-R22Z	MF RESISTOR	0.22Ω,1W				
	M/U	UNAU143-N222	WIT NEGOTOT	V.L. 22 /1 VV	△ LF001	PELN0678	LINE FILTER	
	D71	QRD161J-102	RESISTOR	1kΩ,1/6W	Z 2,001	, called , d	LINE FIETER	
	R71 R72	QRD161J-752	RESISTOR	7.5kΩ,1/6W				
			RESISTOR	8.2kΩ,1/10W				
	R73	QRSA08J-822YN		2kΩ				
	R74	QVPC625-202Z	V RESISTOR		DRUM	BOARD <94	>	
	R75	QRSA08J-222YN	RESISTOR	2.2kΩ ,1 / 10W				
	R79	QRSA08J-102YN	RESISTOR	1kΩ,1/10W				
	R80	QRSA08J-102YN	RESISTOR	1kΩ,1/10W	PWB	PRK30121	UPPER DRUM BOA	. DD
	D04	0 D 0 0 0 1 4 0 0 V N	DECICEOD	1kΩ,1/10W	PWD	PHROUIZI	UPPER DRUNI BUA	ואט
	R81	QRSA08J-102YN	RESISTOR		Α			
	R82	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W				
	D105	ODCAGG LADGY	RESISTOR	0Ω,1/10W				
	R105	QRSA08J-0R0Y	NESISTON	011,17 1044	CONNE	CTOR BOAR	D ASSEMBLY <	95>
		001111111111111111111111111111111111111	CARACITOR	0.001 5 50\/				
	C22	OCYA1HK-102	CAPACITOR	0.001 μ F,50V	DAIDA	DD1/004004		m 40%/
	C23	QETBICM-108	E CAPACITOR	1000 μ F,16V	PWBA	PRK30122A	CONNECTOR BOAR	D WOLA
	C24	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
	C30	QCYA1HK-102	CAPACITOR	0.001 μ F,50V				
					CN1	YU40106-13	CONNECTOR	
	C31	QETC0JM-477	E CAPACITOR	470 μ F,6.3V	CN2	PU58250-14	CONNECTOR	
	C32	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
	C35	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
	C36	QETC1 EM-475	E CAPACITOR	4.7 μ F,25V				
	C37	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
	C38	QETC1 EM-475	E CAPACITOR	4.7 μ F,25V				
	C47	QETC1CM-227	E CAPACITOR	220 μ F,16V				
	C48	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
	C55	QCFA1HZ-103	CAPACITOR	0.01 μ F,50V				
	C56	QETC0JM-476	E CAPACITOR	47 μ F,8.3V				
	C57	QETC0JM-227	E CAPACITOR	220 μ F,6.3V				
	OU /							
			CAPACITOR	0.01 u F.50V				
	C58 C60	QCFA1HZ-103 QETC0JM-226	CAPACITOR E CAPACITOR	0.01 μ F,50V 22 μ F,6.3V				

SECTION 7 TECHNICAL INFORMATION

7.1 HOUR METER INDICATIONS

7.1.1 Outline

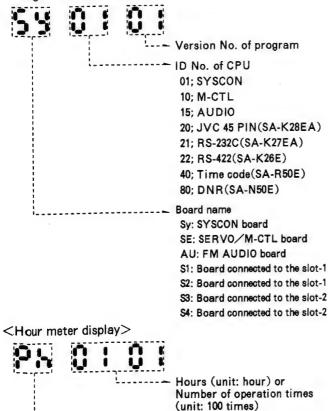
This model is capable of indicating the following data in the on-screen display besides running hours of the drum motor.

- (1) Total operation (power-on) hours (POWER HOUR METER)
- (2) Running hours of capstan motor (CAP HOUR METER)
- (3) Running hours of reel motor (REEL HOUR METER)
- (4) Number of switching-on times (POWER ON TIMES)
- (5) Number of loading times (LOADING TIMES)
- (6) Number of ejection times (EJECT TIMES)
- (7) Number of times of head cleaner operation (HEAD CLEANING TIMES)
- (8) Version No. of the CPU program (XXX ROM Ver.)
 Those data are shown in the counter display on the front panel and the on-screen display.

7.1.2 Operation procedure

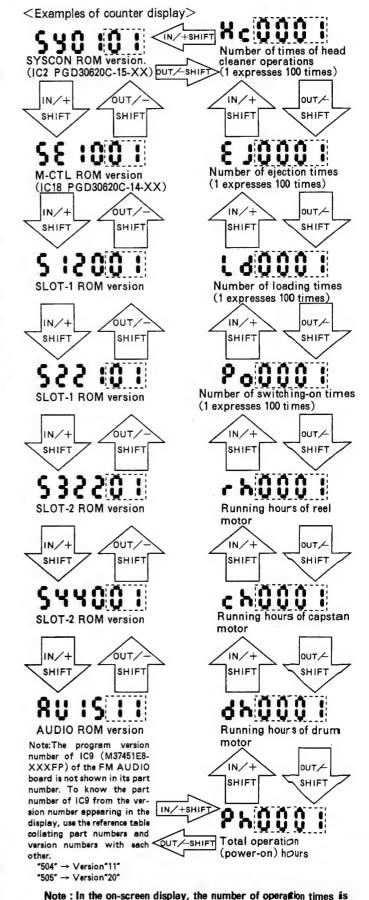
- (1) Without any cassette inserted, press the EJECT and MENU buttons at the same time.
- (2) The version number of the EP-ROM of the SYSCON board appears in the counter display.
- (3) Every time the IN/+SHIFT or the OUT/-SHIFT button is pressed, the displayed item changes one after another as shown in the right column. Detail of each display is as follows.





(4) To reset the display to the original indication, press the MENU button once to reset it to the MENU SETTING display or press it one more again to reset it to the TAPE COUNTER display.

------ Item of indication



indicated at a unit of one time.

7-1

7.2 SERVICE MENU

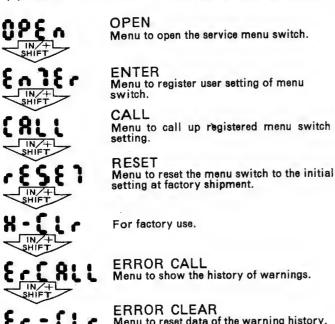
7.2.1 Outline

The service menu of this model includes the following functions

- (1) To set menu switches for servicing.
- (2) To register and call user setting of menu switches.
- (3) To reset menu switch setting to the initial setting at factory shipment.
- (4) To show the history of warnings.

7.2.2 Access procedure to service menu

- (1) Take the cassette tape out of the set and then turn off the power switch.
- (2) Turn on the power switch again and press the EJECT and STOP buttons simultaneously within 2 seconds after the counter display goes on.
- (3) "OPEn" appears in the counter display.
- (4) Press the IN/+SHIFT button to show a desired menu.



Menu to reset data of the warning history.

For factory use.

TRACKING ADJUSTMENT Menu to adjust tracking preset.

For factory use.

For factory use.

ON-SCREEN ADJUSTMENT Menu for adjustment of the on-screen circuit.

The display returns to the OPEN menu. Continuous pressing of the IN/+SHIFT button shows the above service menues repeatedly.

7.2.3 Operation procedure

(1) Menu switch setting for service use

Besides the menu switches explained in the instructions, there are other menu switches for service use provided in this set. This subsection explains procedures to change the setting of those menu switches.

- 1) Access the service menu and get "OPEn" appearing in the counter display. (Refer to 7.2.2.)
- 2) Press the SET button on the front panel and then press the MENU button. All menu switches will be opened.
- 3) With the IN/+SHIFT and the OUT/-SHIFT buttons, access the menu number to be desired to change on the counter display.
- 4) Change the setting with the SET button.
- 5) To quit or cancel the service mode, press the MENU button.

(2) Registering procedure of user setting of Menu SW

- 1) Access the service menu and get "EnTEr" appearing in the counter display. (Refer to 7.2.2.)
- Press the SET button on the front panel and the current menu switch setting is registered.

(3) Calling procedure of user setting of Menu SW

- 1) Access the service menu and get "CALL" appearing in the counter display. (Refer to 7.2.2.)
- 2) Press the SET button on the front panel and the menu switch setting is reset as it was registered in the above item (2) 'Registering procedure of user setting of menu

(4) Initializing procedure of Menu switch setting as it was set at factory shipment

- 1) Access the service menu and get "rESET" appearing in the counter display. (Refer to 7.2.2)
- 2) Press the SET button on the front panel and the menu switch setting is reset to the initial setting at factory shipment.

(5) Tracking preset adjustment mode

The tracking preset adjustment is necessary to obtain the optimum tracking as the tracking control knob is set at the center click position, since there is irregularity in the characteristics of variable resistors used for tracking adjustment. The tracking preset adjustment of this model is so simplified compared with previous models as just to store the output voltage with the tracking control being set at thecen ter click position in the memory of the microprocessor.

- 1) Access the service menu and get "Tr-AdJ" appearing in the counter display. (Refer to 7.2.2.)
- 2) Set the tracking control knob at the center click position.
- 3) Press the SET button, and the microprocessor memorizes the output voltage of the tracking control.

(6) On-screen adjustment mode

The on-screen adjustment mode is used to adjust the oscillation frequency of the crystal used in the on-screen circut. Previous models require to shortcircuit test points for this adjustment, however, this model is so improved that such rousblesome shortcircuiting is replaced by this mode.

(7) Warning history clearning procedure

This model stores data of the last four warning moles. Use the warning history clearing menu to clear the stored ata of past

- 1) Access the service menu and get "Er-CLr" appearing in the counter display. (Refer to 7.2.2.)
- 2) Press the SET button and the stored warning data is cleared.

Menu No.	ltem	Function	Counter	Explanation
		● SERVO	The safety and the safety and the safety	
000	FRAME SERVO		0,[1],2	MENU SW-1 Initial setting : 4FIELD
001	TBC CONNECT		[0],1	MENU SW-2 Initial setting : OFF
002	OPERATION LOCK		[0].1	MENU SW-1 Initial setting : OFF
003	SYNC SELECT		0,1,2,[3]	MENU SW-1 Initial setting : AUTO
004	AUTO H PHASE	● VIDEO	0,[1]	MENU SW-2 Initial setting : ON
100	S-VHS SELECT	VIDEO	0,[1]	MENU SW-1 Initial setting : AUTO
101	EDIT SELECT		[0],1,2	MENU SW-1 Initial setting : OFF(PB)
106	SWITCHING POINT	Selects drum rotation phase	[0]	6.5H
100	OWIT OTHER COMMO		2	2.25H (Use this setting when you want a lower switching point for closed-circuit system.)
7		O AUDIO		المرابعة المستخدمة والمرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المنابعة المرابعة الم
200	Hi-Fi AUDIO REC		0,[1]	MENU SW-1 Initial setting : ON
201	NORMAL AUDIO DOLE	IY NR	0,[1]	MENU SW-1 Initial setting : ON
202	NORMAL AUDIO LIMIT		0,[1]	MENU SW-1 Initial setting : ON
203	AUDIO OUTPUT SELEC	CTER	[0],2	MENU SW-2 Initial setting : SEP
204	HI-FI OUT AT SEARCH		[0],1	MENU SW-2 Initial setting : MUTE
205	AUDIO-1 REC		[0],1	MENU SW-1 Initial setting : AUDIO-1
206	AUDIO-2/LTC		[0],1	MENU SW-2* Initial setting : AUDIO-2
207	AUDIO INPUT SELECT		[0],1	MENU SW-2 Initial setting : SEP
208	AUDIO DUB SELECT		1,[2],3	MENU SW-1 Initial setting : AUDIO-2
		● SYSTE	M	
300	DIRECT EJECT		0,[1]	MENU SW-2 Initial setting : ENABLE
301	DIRECT SEARCH		0,[1]	MENU SW-2 Initial setting : ENABLE
302	AUTO REC PREROLL		0,[1]	MENU SW-2 Initial setting : ENABLE
303	WARNING ENABLE	Normally keep this menu to "0" side.	[0]	Warning mode is enabled.
			1	Warning mode is not enabled.
304	RECORDING INHIBIT		[0].1	MENU SW-2 Initial setting : OFF
305	REPEAT RECORDING		[0],1	MENU SW-2 Initial setting : DISABLE
***********	LONG PAUSE	Long pause parameters are selected	[0]	Long pause function is enabled.
		with menu item #307~#310.	1	Long pause fonction is not enabled.
307	LONG PAUSE TIME	With menu item #306 set to "0"	0	Long pause starts 1 sec. after.
		(ENABLE) ,selects the length of time before normal Pause (STOP, STILL		Long pause starts 10 sec. after.
		and REC-PAUSE) changes to Long		Long pause starts 30 sec. after.
		Pause.	3	Long pause starts 1 min. after.
			4	Long pause starts 2 min. after.
			5	Long pause starts 3 min. after.
			6	Long pause starts 4 min. after.
			[7]	Long pause starts 5 min. after.
308	LONG PAUSE	Selects the contents of Long Pause	[0]	Standby off mode takes place.
	(STILL) MODE	mode. (After the time set with menu item #307 expires in Still or Record-Pause mode, the VCR operates as specified.)		Every time the period of time set by the menu item #307 elapses, the tape is forwarded for 2 frames. (After this operation is repeated six times, the mode is shifted to the standby off mode.)
309	LONG STOP MODE	Selects the contents of Long Pause	[0]	Standby off mode takes place.
		mode. (After the time set with menu item #307 expires in Stop mode, the VCR operates as specified.)		Every time the period of time set by the menu item #307 elapses, the tape is forwarded for 2 frames. (After this operation is repeated six times, the mode is shifted to the standby off mode.)

^{*} When SA-R50 is installed, this menu will change to Menu switch-1.

Menu No.	Item	Function	Counter	Explanation
- 19 - 10		● SYSTE	M	
310	STAND-BY OFF	Selects the status of Standby-off mode.	0	Drum rotates, pinch roller is off.
	MODE		[1]	Drum stops, pinch roller is off.
			2	Unloading end state.
312	MODE AT TAPE END		[0],1	MENU SW-2 Initial setting : STOP(SHORT REW
313	PB.PB/EE SELECT	Selects output signal.	[0]	In the mode set by Menu No.314 : EE
			1	Always PB output mode.
314	PB/EE MODE	With menu item #313 set to "0" (PB/EE), selects the mode in which	[0]	In STOP/FF/REW mode : EE
		EE signal is output.	1	In STOP : EE
315	LOCAL FUNCTION	Selects operation button to be accepted	[0]	STOP/EJECT
		when REMOTE SW is set to REMOTE side.	1	STP/FF/REW/STL/PLY/EJ
		Side.	2	All buttons are accepted.
			3	All bottons are not accepted.
316	9PIN CMD FUNCTION (SA-K26)	Selects 9-pin remote control com- mands that are acceptable when front		Accepts no command from 9-pin remote control.
		panel REMOTE switch is set to LOCAL.	1	Accepts STOP and EJECT command only.
317	9PIN DEVICE TYPE ID	(SA-K26)	[0],1,2,3	MENU SW-2 Initial setting : JVC S-VHS-1
318	TC DATA W/O TC BOARD	Selects VCR's response to 9-pin remote control when remote control	0	VCR returns code meaning TC MISSING.
		requests time code data and time code board is not installed.	[1]	VCR returns substitute CTL data.
319	TAPE MAX SPEED	APE MAX SPEED		MENU SW-2 Initial setting : ×140
320	PREROLL TIME	Selects preroll time in one-second	0	0 second
		steps from 0 to 15 seconds. (This menu is available only when	[5]	5 seconds
		receiving the PREROLL command.)	Ė	15 seconds
321	TIME REFERENCE	Selects time count reference for preroll	0	CTL (Preroll is possible even when TC is missing.)
	FOR PREROLL	in TC operation.	[1]	TC
322	ENTRY	Activates or defeats automatic IN point entry function when receiving the	\$800 \$500 0 [0]	IN point is not entered automatically.
	(SA-K26)	PREROLL command.	[1] 1	IN point is entered automatically if no III point has been previously entered.
323	MODE AFTER PREROLL	Selects the mode after preroll or cue up is completed. (This menu is available only when	[0]	STOP
		receiving the PREROLL or CUE UP WITH DATA command.)	1	STILL
325	CTL COUNTER MODE	Selects the CTL counter mode.	[0]	±9H mode
			1	24H mode
327	CTL CLEAR AT EJECT	Activeates or defeats automatic CTL data and IN/OUT point data reset	0	CTL counter is reset when cassette is ejected.
		function when cassette is ejected.	[1]	CTL counter is not reset when cassette is ejected.
328	EDIT POINT CLEAR (SA-K26)	Activates or defeats automatic IN/OUT point data clear function after Auto edit is completed.	0	DISABLE
		(This menu is available only when receiving AUTO EDIT command.)	[1]	ENABLE
329	OUT POINT RETURN (SA-K26)	Activates or defeats automatic OUT point return function after Auto edit is completed.	0	DISABLE
		(This menu is available only when receiving AUTO EDIT command.)	[1]	ENABLE
330	VIDEO EDIT DELAY		[0],1	MENU SW-2 Initial setting : 8FRAMES
331	AUDIO EDIT DELAY		[0],1	MENU SW-2 Initial setting : 8FRAMES

Note: The menu switches for servicing are not shown in the on-screen display.

[]: initial settings.

Menu No.	Item	Function	Counter	Explanation
	and the same of th	O SYSTER	VI	
333	CF SERVO LOCK REPLY	Selects information to deliver to 9-pin remote when remote control requests status of 8-field colour frame lock.	0	The bit of CF SERVO LOCK is always set to "0".
		(S-VHS VCR does not have 8-field colour frame servo circuit.)	[1]	The bit of CF SERVO LOCK is set to "1" when the capstan servo is locked to 4-field colour frame.
336	NTSC/PAL	Selects PAL/NTSC.	0	NTSC
			[1]	PAL
337	SLOW MODE		0,[1]	MENU SW-2 Initial setting : STEP
338	MENU SW-2		[0],1	MENU SW-1 Initial setting : CLOSE
339	AUDIO DUB ENABLE A	IT LTC	[0],1	MENU SW-2* Initial setting : DISABLE
340	SEARCH SPEED		[0],1	MENU SW-2 Initial setting : ×33
343	SUB WARNING INHIBIT		[0],1	MENU SW-2 Initial setting : OFF
351	SYNCHRONIZATION		0,[1]	MENU SW-Z Initial setting : ENABLE
356	MODE AT CF UNLOCK	Selects VCR mode in cases where	0	EDIT: Executes editing or edit preview.
		colour frame is unlocked when auto- matic editing or edit preview is	1	STOP ; Enters STOP mode.
		started.	[2]	RE-TRY : Re-tries up to 3 times.
		TIME-CODE (
400	VITC POSITION-1			MENU SW-1 Initial setting : 19
401	VITC POSITION-2		0~F,[E]	MENU SW-1 Initial setting : 21
403	TCG REGEN MODE		[0],1,2	MENU SW-2 Initial setting : TC & UB
404	TC SOURCE AT REGEN			LTC
		REGEN) and Auto Reader mode (with menu item #412 set to AUTO).		VITC
405	LTC OUT SELECT		[0],1	MENU SW-2 Initial setting : OFF TAPE
406	U-BIT BINARY GROUP	Selects character set configuration to use TC generator's user bits.	[0]	NOT SPECIFIED : Character set configuration i not specified.
			1	ISO CHARACTER: 8-bit character set conforming to ISO646 and ISO2022 (with binary group flags a bit counts 43 and 59 in LTC; at 55and 75 in VITC)
			2	UNASSIGNED-1: Undefined
			3	UNASSIGNED-2: Undefined
407		Selects recording of LTC phase correc-	0	OFF
	BIT	tion bit.	[1]	ON
408	VITC LINE	Selects whether VITC is recorded on		VITC is recorded after lines are cleared.
		the lines set with menu items #400 and #401.	1	Lines are cleaned.
409	EXTERNAL REGENTO	1000	[0],1	MENU SW-2 Initial setting : LTC
410	AUTO REGEN	Selects the edit mode in which time		ASSEMBLY + INSERT
	MODE	codes are recorded automatically in Regen mode regardless of menu item	1	ASSEMBLY
		#414 setting.	2	INSERT
		(This menu is available only when receiving AUTO EDIT command.)	3	OFF
411	_	No function		
412	TIME CODE SELECT		1,2,3	MENU SW-1 Initial setting: [2] VITC(with SA-N助臣) [1] LTC(w/o SA-N助臣)
	1		[0],1	MENU SW-1 Initial setting: INTERVAL
413	TCG SOURCE			
414	TCG SELECT		0,[1]	MENU SW-1 Initial setting : REGEN
415	TCG MODE		[0],1	MENU SW-1 Initial setting ; FREE IUN
417	VITC REC		0,1	MENU SW-1 Initial setting: [1] ON(with SA-N50E) [0] OFF(w/o SA-N5E)
100				

^{*} When SA-R50 is installed, this menu will change to Menu switch-1.

Menu No.	ltem	Function	Counter	Explanation
		ON-SCRE	EN	
500	ON-SCREEN DISPLAY		0,[1]	MENU SW-1 Initial setting : ON
501	CHAR. H POSITION	Adjusts on-screen VCR data display	[0]	VCR data is displayed at the rightmost position.
		position in the horizontal direction.	1-8	Display position shifts to the left with increasing numbers.
502	CHAR. V POSITION	Adjusts on-screen VCR data display	[0]	VCR data is displayed at the bottom of screen.
		position in the vertical direction.	1-8	Display position shifts up with increasing numbers.
504	INFORMATION		0,[1]	MENU SW-2 Initial setting : TIME+MODE
506	BLUE BACK	Blue back ON/OFF switch.	0	Black
			[1]	Blue
	. to fine to being - Vily down	O DNR (SA-	N50)	
600	TBS FREEZE		0,1,[3]	MENU SW-1 Initial setting : FREEZE-2
602	TBS/DNR		0,[1]	MENU SW-1 Initial setting : ON
604	YNR LEVEL		0,[1],2,3	MENU SW-1 Initial setting : 1
605	CNR LEVEL		0,[1],2	MENU SW-1 Initial setting : 1
610	FORCED DNR ON	Adjustment switch	[0]	NORMAL
	(SA-N50)		1	ADJUSTMENT: DNR operates evenin EE mode.

Table 7-2-1(4) Table of menu switches for service use

(8) Calling procedure of warning history

This model stores the following data of past warning modes that the set entered for the last four times so as to inform the warning modes in detail.

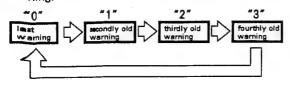
- a) Warning code in three figures.
- b) Operation mode of the set when the warning was activated.
- Operation mode of the set preceding the mode in which the warning was activated.
- d) Operation button that was lastly operated before the warning mode.
- e) Total operation (power-on) hours indicated by the hour meter when the warning was activated.

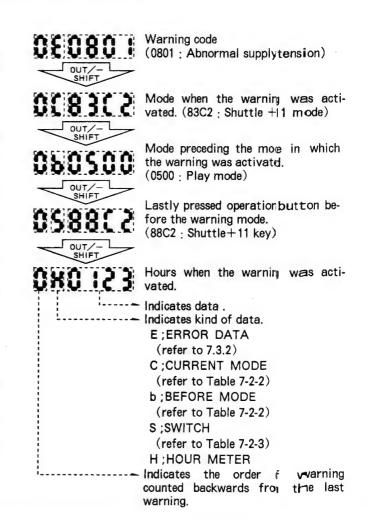
The above-mentioned information on the warning can be called by the following procedure.

- Access the service menu and get "ErCALL" appearing in the counter display. (Refer to 7.2.2)
- Press the SET button on the front panel and such the last warning code as the following will appear in the counter display.

06080 i

- Press the OUT/-SHIFT button on the front panel repeatedly and the detailed information on the last warning mode will appear in the counter display one after another.
- 4) To access the data of older warnings, press the IN/+SHIFT button once to access the warning preceding the last one, press it again to access the thirdly old warning, and do it once more to access the fourthly old warning.





CMD	MODE	REMARK
02 -	STILL	
05 —	PLAY	
07 -	NO CASSETTE	
09 -	EJECT	
0B -	STOP-2	UNLOAD END state
0C -	STOP-3	PINCH:OFF, DRUM: OFF
0D -	STOP-4	PINCH: ON, DRUM: ON
0E -	ERROR MODE	
10 -	POWER OFF	
13 -	SKIP FWD	Leader tape skipping in the
14 -	SKIP REV	Full-loading End state.
17 -	SLOW FF	Reel Search at 33X or 17X speed, or
18 —	SLOW REW	FF/REW (pinch roller off) near the end or
19 —	FAST FF	Reel Search at 140X speed.
1A -	FAST REW	
1B -	SHORT FF	Leader tape skipping in the
1C -	SHORT REW	Unloading End state.
80 **	REC	Including 1 byte data. *1
81 **	ASSM EDIT	Including 1 byte data. *2
83 **	SHUTTLE(+)	Including speed data. *3
84 **	JOG (+)	Including speed data. *3
85 **	VARIABLE (+)	Including speed data. *3
86 **	PLAY(+)	Including speed data. *4
1	AUDIO DUB	Including 1 byte data. *5
91 **	INSERT EDIT	Including 1 byte data. 🔻 🛊 6
93 **	SHUTTLE (-)	Including speed data. *3
94 **	JOG (-)	Including speed data. *3
95 ×× ×	VARIABLE (-)	Including speed data. *3
96 ××	PLAY (-)	Including speed data. *4
B3 **	INTAKE	
	HALF LOAD	Including data to indicate the next mode.
B5 ≯k ≯	HALF UNLOAD	*7
	LOAD .	
B7 ★ ×	UNLOAD	

Table 7-2-2 Mode data

1	4D	KEY	REMARK
80,000	0.000000000		REMAIR
30	-	EJECT KEY	
31	00		
32	00	FF KEY	
33	00	REW KEY	
34	00	STILL KEY	
37	00	EDIT KEY	
38	00	EDIT STOP KEY	
40	00	PLAY KEY	
41	00	REC+PLAY KEY	
42	00	REC+PAUSE KEY	
43	00	A.DUB+PLAY KEY	
44	00	A.DUB+STILL KEY	
45	00	STAND-BY KEY	
50	00	POWER ON KEY	
60	00	POWER OFF KEY	
87	**	EE ON KEY	Containing data to select EE signal. *8
88	**	SHTL(+) KEY	Containing speed data. *3
89	**	JOG(+) KEY	Containing speed data. *3
8A	**	VAR SRH(+) KEY	Containing speed data. *3
88	**	PLAY(+) KEY	Containing speed data. *4
97	**	EE OFF KEY	Containing data to select EE signal. *8
98	**	SHTL(-) KEY	Containing speed data. *3
99	**	JOG(-) KEY	Containing speed data. *3
9A	**	VAR SRH(-) KEY	Containing speed data. *3
		PLAY(-) KEY	Containing speed data. *4

Table 7-2-3 Key data

Data added to mode commands

*1 Detailed status of REC mode is shown by the data 0. <Data 0>

	MS	SD		LSD					
7	7 6 5 4				2	1	0		
			REC		REC PLAY		BACK SPACE		

*2 Detailed status of ASSEM mode is shown by the data 0. < Data 0>

	MS	SD			LS	SD	
7	6	5	4	3	2	1	0
			ASSEM		EDIT PLAY	EDIT STILL	PRE- ROLL

*3 Tape speed is expressed by the data 0 in the following equation.

*4 Tape speed is expressed by the data 0 in the following equation.

*5 Detailed status of AUDIO DUB mode is shown by data 0.

<Data 0>

	MS	SD		LSD					
7	6	5	4	3	2	1	0		
			AUDIO DUB				PAUSE		

*6 Detailed status of INSERT mode is shown by data 0. < Data 0>

MSD				LSD				
7	6	5	4	3	2	1	0	
			INSERT		EDIT PLAY	EDIT STILL	PRE- ROLL	

*7 Although the next mode is indicated by the data 0 and data 1 in this command, the counter display shows the detail of the data 0 only.

<Data 0 >

	MS	SD		LSD				
7	6	5	4	3	2	1_	0	
	REW	FF	STOP	REC PLAY	REC STILL		EJECT	

< Data 1 > This data is not shown in the counter display.
MSD
LSD
7
6
5
4
3
2
0

	M	SD			LS	3D	
7	6	5	4	3	2	1	0
REV	FWD	STILL	PLAY		SHTL REV	SHTL STILL	SHTL FWD

★8 In this command the data 0 indicates the sign₈ I line to be used for EE operation.

<Data 0>

MSD				L	SD		
7	6	5	4	3	2	1	0
			SELECT				FULL

7.3 WARNING DETECTION CIRCUIT

7.3.1 Outline

If there occurs something abnormal in operation, this set diagnose the cause by itself and stops the operation automatically.

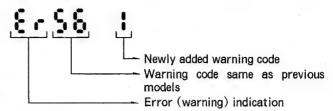
This operation is named the warning mode, which indicates the kind of the abnormal operation in the counter display on the front panel and in the Video Monitor Out signal.

When the menu No. 303 'WARNING ENABLE' is set to OFF (01), the set does not enter the warning mode.

When the set enters the AUTO OFF mode, the set can be recovered from the mode only by turning off the main switch once and turning it on again.

Although such the operation as mentioned above is carried out in previous models, this model is improved in diagnosing speed with the newly added functions of the following.

1) Warning code displayed in three figures Compared with the display in two figures for previous models, this set indicates more detailed data of the warning with an additional digit.



2) Memory of warning history This set stores data of past warning modes in the memory. (Refer to 7.2.3(8) 'Calling procedure of warning history'.)

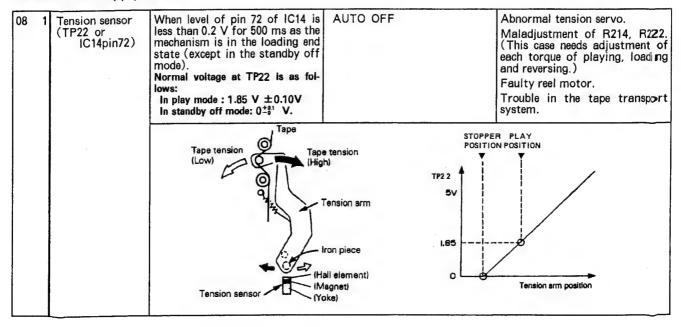
7.3.2 Table of warning codes

Symbol No. . indicates part on the SERVO/M-CTL board unless otherwise indicated.

	de o.	Ser	isor	Detection manner	Operation	Countermeasure
	-	akdowi	or disc	onnection of LED for leader t	ape detection	
01	1	Q22		When level of pin 38 of IC21 becomes High level for 240 ms or longer. Normal level of pin 38 of IC21 is 0 V.		Replace the LED.
02:	Coi	ndensat	ion on d	rum		
02 1		dew sen	eristic of sor Resistance	V or more. This warning mode is cancelled when level of pin 75 of IC14 be-	tion mode. In the dewed condition, no cas-	cancelled, it may result from trouble of the dew sensor.
		75%	20kΩ and less	operated as the set was in the warning 02 mode.		
		100%	200kΩ and more	Normal level of pin 75 of IC14 is 2 V or less.		

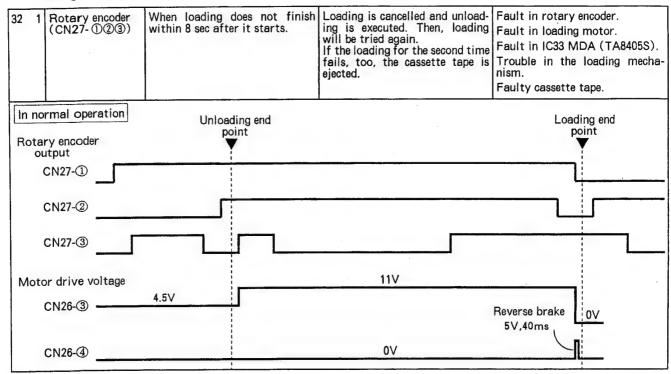
08: Abnormal supply tension

more

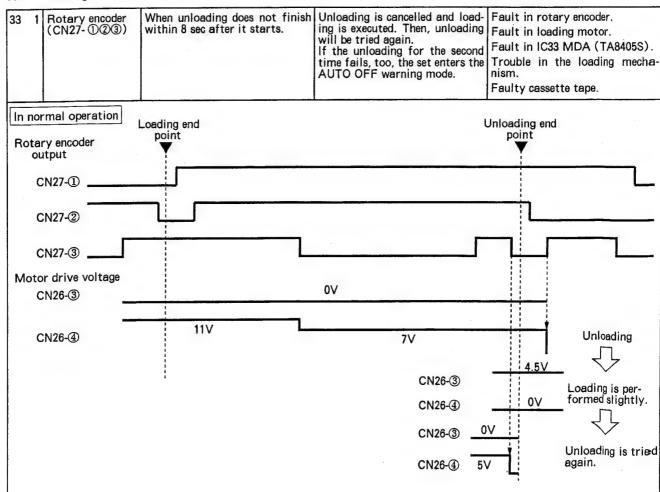


Gode Sensor Detection manner Operation	Countermeasure
Code No. Sensor Detection manner Operation	

32: Loading is not carried out.

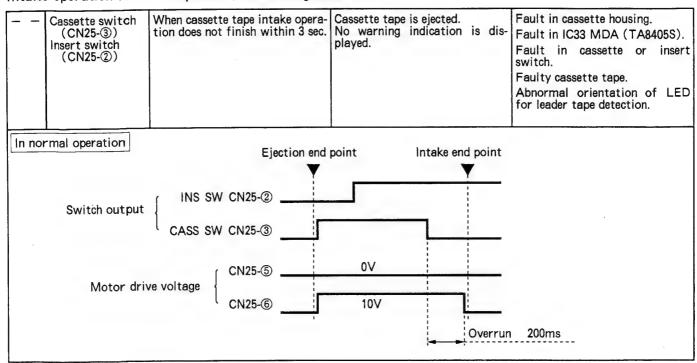


33: Unloading is not carried out.

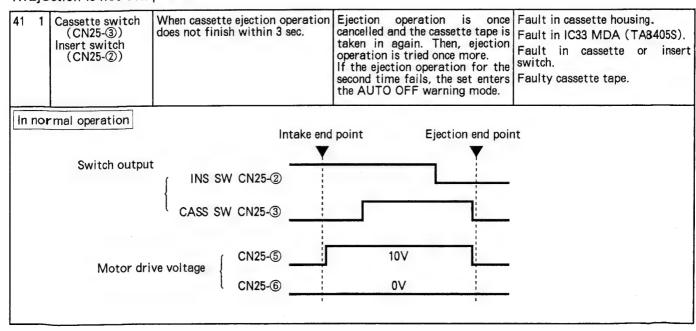


Symbol No. . indicates part on the SERVO/M-CTL board unless otherwise indicated.

Intake operation is not completed. (No warning indication)



41: Ejection is not completed.



Symbol No. . indicates part on the SERVO/M-CTL board unless otherwise indicated.

Co	2000	Sensor	Detection manner	Operation	Countermeasure
56:	Гар	oe breaking			
56	1	SUP. reel FG (IC14pin63)	When reel reversely runs for 3 cm and more in tape length in the Short FF/REW or Skip FWD/REV mode.	Cassette tape is ejected.	Trouble in reel servo circuit. Faulty wiring between reel motor and SERVO/M-CTL board.
56	2	TU. reel FG (IC14pin62)	TWD/ NEV Mode.		
56	3	SUP. reel FG (IC14pin63)	When there are more than 40 REEL FG pulses output for the reason that reel motor runs at a high speed exceeding the specified limit with a cassette tape being inserted. Specified speed limit is:	Cassette tape is ejected.	Trouble in reel servo circuit. Faulty wiring between reel motor and SERVO/M-CTL board.
56	4	TU. reel FG (IC14pin62)	When pinch roller is on : 11X speed x 1.1 When pinch roller is off : 140X speed x 1.1. The above limits are determined by calculation of diameter of tape winding and REEL FG pulses.		
56	5	Tape beginning sensor (IC21pin37) Tape end sensor (IC21pin36)	When both of tape end and tape beginning are detected for 500 ms or longer in a mode other than loading and unloading at the same time with a cassette tape being inserted. Each sensor output is 3.5 V or more in normal operation.		Trouble in tape beginning sensor and tape end sensor. Abnormal orientation of LED for leader tape detection.
56	6	SUP. reel FG (IC14pin63)	When supply reel turns around 7 times or more in unloading mode. (A turning around of supply reel outputs 120 SUP REEL FG pulses.)		Trouble in reel servo circuit. Faulty wiring between reel motor and SERVO/M-CTL board.
56	7	SUP. reel FG (IC14pin63)	When supply reel turns around 5 times or more in loading mode. (A turning around of supply reel outputs 120 SUP REEL FG pulses.)		Trouble in reel servo circuit. Faulty wiring between reel motor and SERVO/M-CTL board.
Bo	tar	ry encoder output	Unloading end point		Loading end point
"		CN27-①			
		CN27-②			
		CN27-③	Warring	566 and 567 datasting range	
	_		warning s	566 and 567 detecting range	

Symbol No.	. indicates part on t	the SERVO/M-CTL	board unless	otherwise indicated

Co	22 10 00 00	Sensor	Detection manner	Operation	Countermeasure
		oe end detection			
57	1	Tape end sensor (CN21-④)	When leader tape is not pulled into cassette within 3 sec in Short REW mode. Tape end sensor output in normal operation is: with main portion of tape : 3.5 V or more, with leader portion of tape : 1.5 V or less.	Cassette tape is ejected. Insert cassette tape again, and the warning display is turned out.	Trouble in reel servo circuit. Fault in tape end sensor. Abnormal orientation of LED for leader tape detection. Faulty cassette tape.
57	2	Tape end sensor (CN21-④)	When leader tape is not pulled into cassette within 3 sec in Skip REV mode.		
 58:	Ta	pe beginning de	tection		
58	1	Tape beginning sensor (CN25-4)	When leader tape is not pulled into cassette within 3 sec in Short FF mode. Tape beginning sensor output in normal operation is: with main portion of tape : 3.5 V or more, with leader portion of tape : 1.5 V or less.	Cassette tape is ejected. Insert cassette tape again, and the warning display is turned out.	Trouble in reel servo pircuit. Fault in tape begining sensor. Abnormal orientation of LED for leader tape detection. Faulty cassette tape.
58	2	Tape beginning sensor (CN25-4)	When leader tape is not pulled into cassette within 3 sec in Skip FWD mode.		
7 0:	Dr	um motor is ab	normal.		
70	1	DRUM FG (IC14pin65)	DRUM FG pulse is not output for 2 sec or more in a mode that drum motor should be running.	AUTO OFF	Fault in wiring betyeen drum motor and SERVD/M-CTL board. Trouble in drum serva circuit. Faulty drum motor.
<u>└</u>	Ca	pstan motor is	abnormal.		
71		CAPSTAN FG (IC14pin64)	CAPSTAN FG pulse is not output for 1 sec or more in PLAY, CAP SEARCH or REC mode.	AUTO OFF	Fault in wiring betwen capstan motor and SERV) M-CTL board. Trouble in capstan sevo circuit. Faulty capstan motor.

Symbol No. . indicates part on the SERVO/M-CTL board unless otherwise indicated.

Code				board unless otherwise indicated.
No.	Sensor	Detection manner	Operation	Countermeasure
72:Su	pply reel motor	is abnormal.		
72 1	SUP REEL FG (IC14pin63) CAPSTAN FG (IC14pin64)	Tape slackening When supply reel does not rotate nevertheless capstan motor is running. (When ratio of SUP REEL FG pulse to CAPSTAN FG pulse is 0 to 3072 or more in number.)	AUTO OFF	Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board. Faulty reel motor.
72 2	SUP REEL FG (IC14pin63)	Reel locking When no SUP REEL FG pulse is output in a specific period of time (4 sec to 12 sec) determined by diameter of tape winding.	AUTO OFF	Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board Faulty reel motor.
72 3	SUP REEL FG (IC14pin63)	Reel rotating reversely When reel turns reversely for 3 cm in tape length in a mode other than Short FF/REW, Skip FWD/REV. (Tape travel distance to be converted into period is determined by calculation of diameter of tape winding and number of REEL FG pulses.)		Trouble in reel servo circuit. Fault in wiring between reel mo tor and SERVO/M-CTL board. Faulty reel motor.
72	SUP REEL FG (IC14pin63)	Reel overrunning When reel motor runs at a high speed exceeding the specific limit (154X speed) without cassette being inserted and more than 40 SUP REEL FG pulses are output a second.		Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board Faulty reel motor.
72	5 SUP REEL FG (IC14pin63)	Abnormal reel rotation in unloading mode When supply reel turns only half around or less in unloading mode. (120 SUP REEL FG pulses are output a turning around of supply reel.)		Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board Faulty reel motor.
72	6 SUP REEL FG (IC14pin63)	Abnormal reel rotation in loading mode When supply reel turns only half around or less in loading mode. (120 SUP REEL FG pulses are output a turning around of supply reel.)		Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board Faulty reel motor.
Rote	cN27-@	Unloading end point		Loading end point
		Warning	725, 726 detecting range	

Symbol No. . indicates part on the SERVO/M-CTL board unless otherwise indicated

No		Sensor	Detection manner	Operation	Countermeasure
73:1	Га	ce-up reel moto	r is abnormal		
73	1	CAPSTAN FG (IC14pin64) TU REEL FG (IC14pin62)	Tape slackening When take-up reel does not rotate nevertheless capstan motor is running. (When ratio of TU REEL FG pulse to CAPSTAN FG pulse is 0 to 3072 or more in number.)	AUTO OFF	Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board. Faulty reel motor.
73	2	TU REEL FG (IC14pin62)	Reel locking When no TU REEL FG pulse is output in a specific period of time (4 sec to 12 sec) determined by diameter of tape winding.	AUTO OFF	Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO/M-CTL board. Faulty reel motor.
73	3	TU REEL FG (IC14pin62)	Reel rotating reversely When reel turns reversely for 3 cm in tape length in a mode other than Short FF/REW, Skip FWD/REV.	AUTO OFF	Trouble in reel servo circuit. Fault in wiring between reel motor and SERVO / M-CTL board. Faulty reel motor.
73	4	TU REEL FG (IC14pin62)	Reel overrunning When reel motor runs at a high speed exceeding the specific limit (154X speed) without cassette being inserted and more than 40 TU REEL FG pulses are output a second.	AUTO OFF	Trouble in reel servo sircuit. Fault in wiring betwen reel motor and SERVO/M-CTL board. Faulty reel motor.
73	5	TU REEL FG (IC14pin62)	No detection of tape winding diameter When take-up reel does not turn a quarter round within 3 sec in the mode to detect tape winding diameter just after intake of cassette tape.	AUTO OFF	Trouble in reel servo ircuit. Fault in wiring betwen reel motor and SERVO/M-(TL board. Faulty reel motor. Trouble in mechanism.

Explanation of technical terms

1.Skip FWD:

As the tape beginning is detected in the REW and Search REV modes, the tape is automatically fast forwarded (at 2X speed) to pull the leader tape into the cassette. The condition of this operation is called the Skip FWD mode.

2.Skip REV:

As the tape end is detected in the FF, Search FWD and Play modes, the tape is automatically rewound (at 2X speed to pull the leader tape into the cassette. The condition of this operation is called the Skip REV mode.

3.Short FF:

When the tape beginning is detected just after intake of a cassette tape, the mechanism automatically fast forwards the tape (at 5× speed) to pull the leader tape into the cassette as the mechanism is in the unloading end state. The condition of this operation is called the Short FF mode.

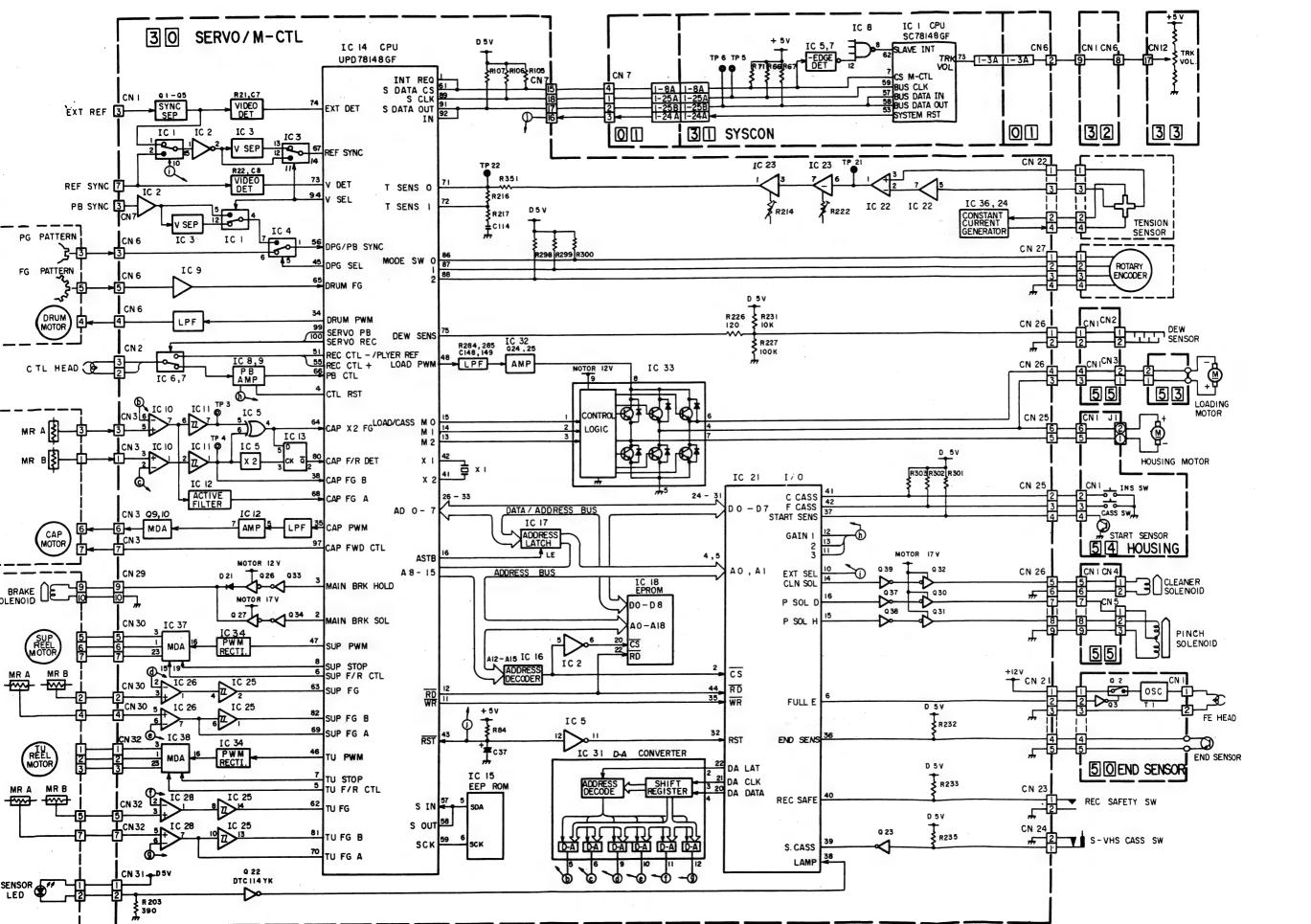
4. Short REW:

When the tape end is detected just after intake of a cassette tape, the mechanism automatically rewinds the tape (ϵ 5X speed) to pull the leader tape into the cassette as the mechanism is in the unloading end state. The condition of this operaton is called the Short REW mode.

5. Detection of tape winding diamter:

With intake of a cassette tape, this set detects the diameter of tape winding on the supply reel before the mode is shifted to the loading mode. According to detection result, the revolution torque of the supply reel motor for loading is changed toontrol the tape tension properply to the current tape winding.

- (1) The take-up reel motor is turned a quarter round in the FWD direction. ⇒ Revolution of the supply reel during thi operation is measured in number.
- (2) The tape is taken in the slack.
- (3) The supply reel motor is turned in the REV direction to turn the take-up reel a quarter round. ⇒ Revolution of the supply reel during this operation is measured in number.
- (4) The higher of two revolutions of the supply reel measured in the above steps (1) and (3) is compared with therevolution (1∕4 turn) of the take-up reel to find the ratio between them, and the diameter of tape winding at that times roughly detected.



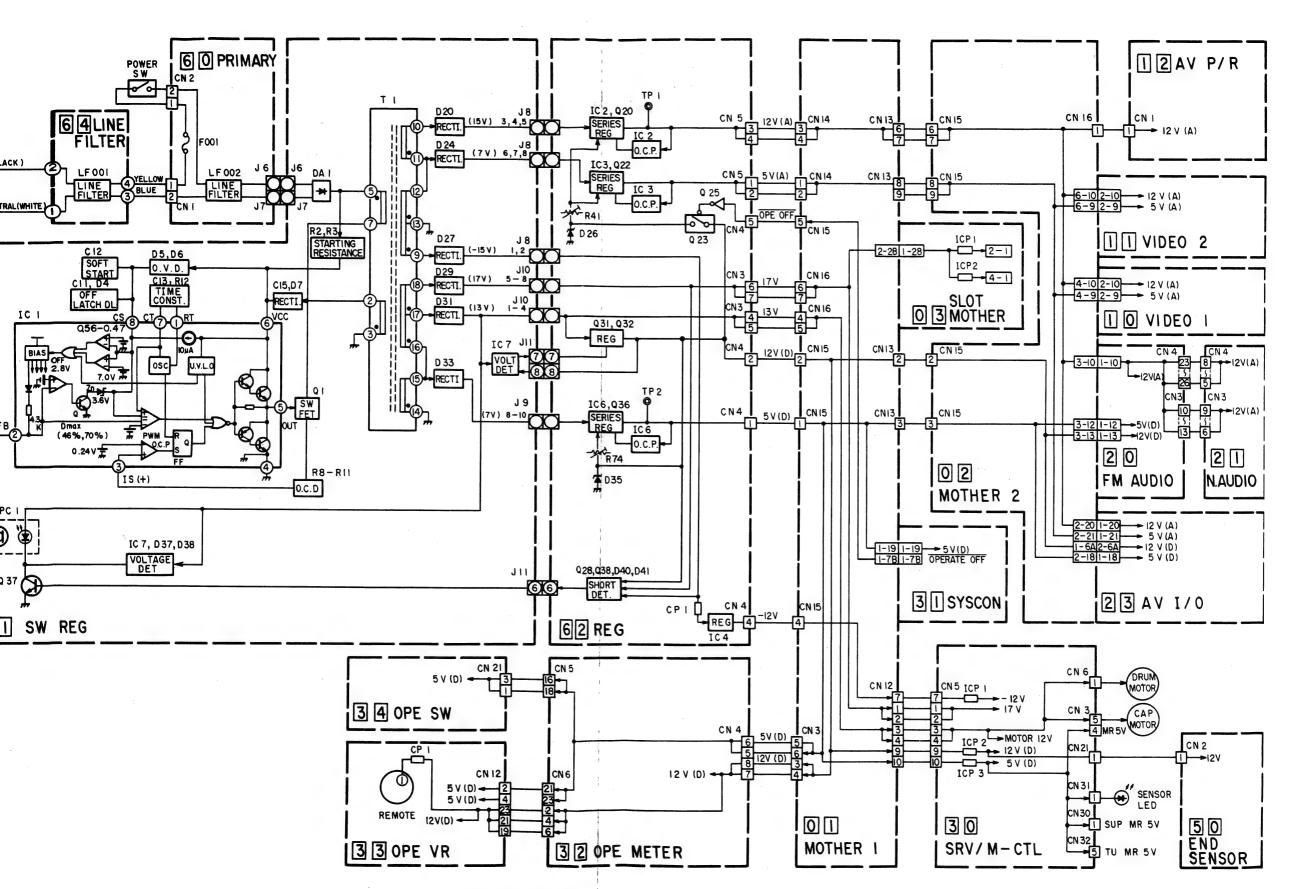


Fig. 7-4-1 Block diagram of Power supply circuit

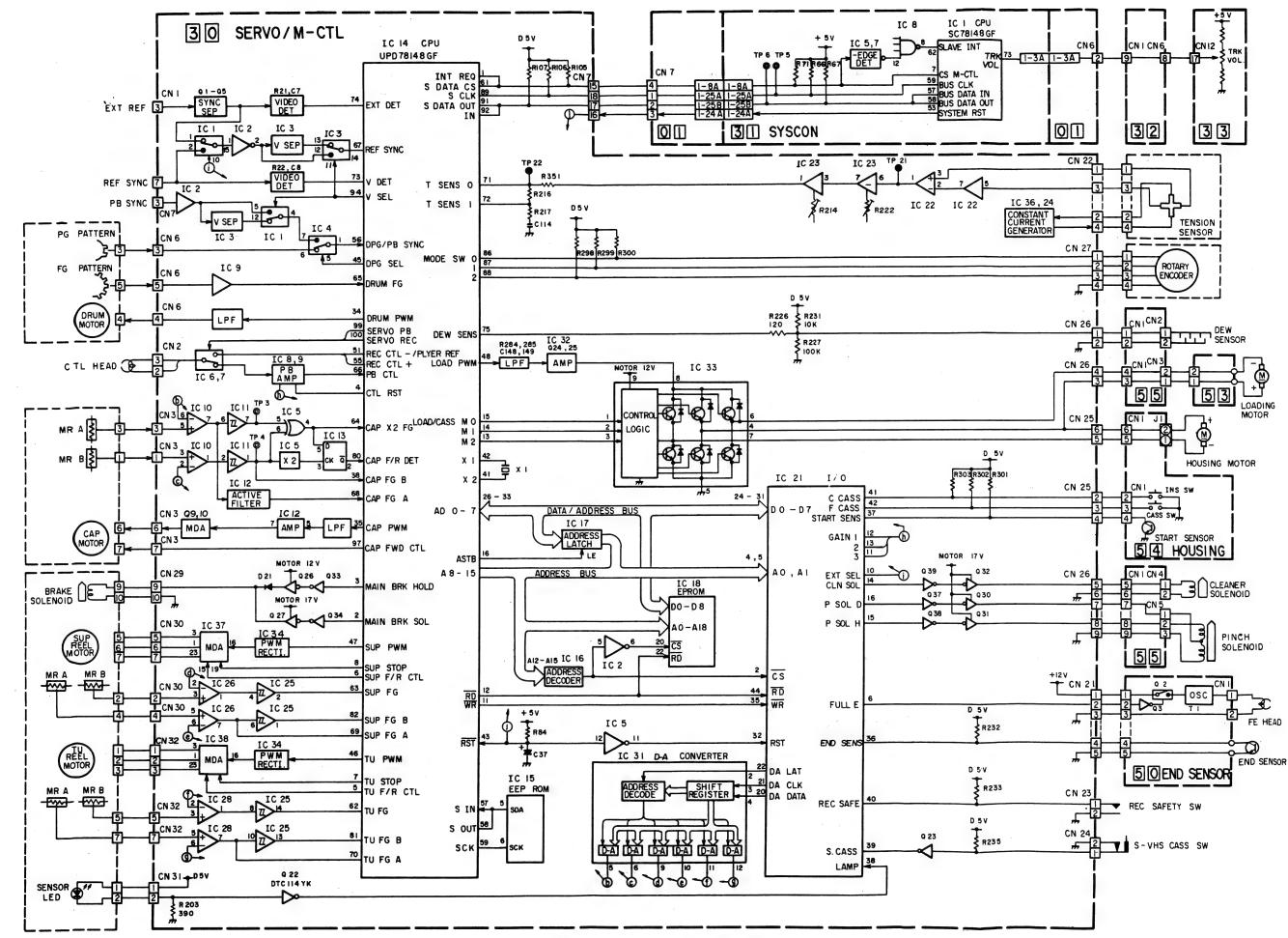


Fig. 7-3-1 M-CTL circuit block diagram

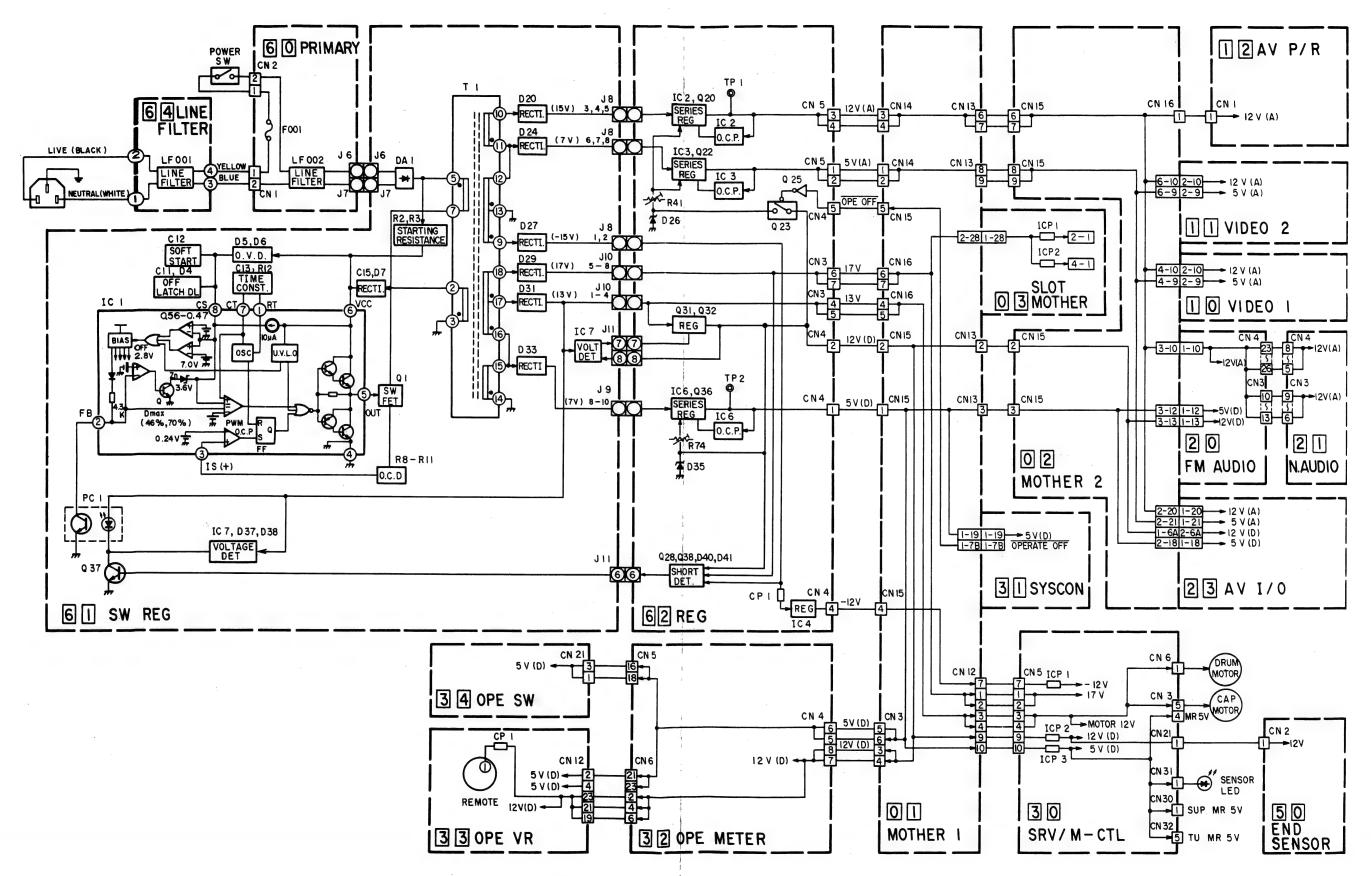


Fig. 7-4-1 Block diagram of Power supply circuit

7.4 POWER SUPPLY CIRCUIT

7.4.1 Operation of switching circuit

Switching power is controlled by IC1 (FA5311P). In detail, as IC1 turns on the switching MOS FET Q1, current flows into the primary coil of the transformer T1. At that time, current does not flow to the secondary coil of T1 since voltage at the secondary coil is applied to the rectifier circuit (D20, D24, D29, D31, D33) in the reverse direction (D27 is supplied with current).

Next, IC1 turns off Q1 and the primary coil resultantly generates counter electromotive force, then current flows to the rectifier circuit of the secondary side to maintain the same ampere return as Q1 is on.

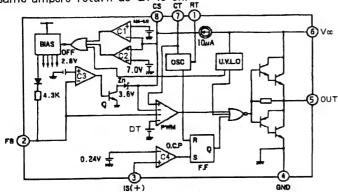


Fig.7-4-1 FA5311P Block diagram

7.4.2 IC1 FA5311P

(1) Oscillation frequency

$$f[kHz] = \frac{10}{4 \times R^{T}[k\Omega] \times C^{T}[pF]} \stackrel{\Leftarrow}{=} 65 [kHz]$$

(2) PWM comparator

PWM COMP

OUT PUT VOLT.

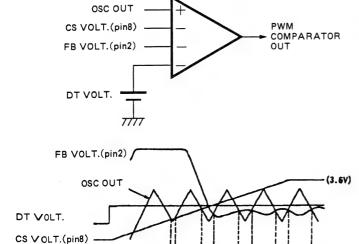


Fig.7-4-2 PWM Comparator

The PWM comparator compares the lowest voltage among CS terminal voltage, FB terminal voltage and DT voltage with the oscillator output.

DT voltage for regulating the maximum duty cycle is set to a voltage with which the maximum duty ratio is set at 70 %.

(3) Soft start

When the power is supplied to the set, the constant-current regulated power (10 μ A) supply circuit inside IC1 starts charging to C12 that is externally attached to the CS terminal. Therefore, CS terminal voltage gradually goes up, and the output pulse width is accordingly widened to actuate the set with soft start.

(4) Power cutoff function in case of overload

When output voltage drops down for the reason of overload and shortcircuit, etc., FB terminal voltage goes up. If FB terminal voltage exceeds 2.8 V, output of the comparator C3 becomes low and the zener diode is unclamped in the IC. As a result, C12 to activate soft start is charged again and CS terminal voltage goes up, too. If this voltage exceeds 7 V, output of the internal comparator C2 becomes high and the bias circuit is turned off. Therefore, IC1 enters the off-latch mode and cuts off the output.

The above condition is canceled when the supply voltage (Vcc) is regulated under 8.7 V.

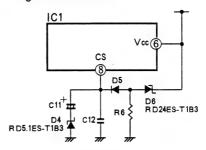


Fig. 7-4-3 External circuit of CS terminal

D4 and C11 that are externally attached to the CS terminal compose a circuit to delay the time to enter the IC into the off-latch mode.

When CS terminal voltage goes up nearly to 5 V, D4 is turned on and C11 is charged, therefore, CS terminal voltage gradually goes up. This operation avoids undesirable action of the power cutoff function such as in momentary overload resulting from turning on of the solenoid.

(5) Over-voltage interrupting function

When Vcc of IC1 exceeds 24 V, CS terminal voltage goes up by the function of the zener diode D6. If this voltage exceeds 7V, the power supply cutoff function is activated as well as the case of overload.

(6) Malfunction prevention circuit against low supply voltage (U.L.V.O.)

To prevent malfunction caused by low supply voltage, IC1 internally employs the malfunction prevention circuit against low supply voltage. When the supply voltage is raised from 0V, IC1 starts operation with 16 V of Vcc, on the other hand, when the supply voltage is dropped down, it is activated to cut off output with 8.7 V of Vcc.

When this circuit is activated once, turn down the level of the CS terminal to reset the circuit.

(7) Over-current protector circuit

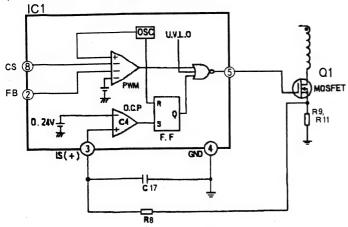


Fig.7-4-4 Over current protector circuit

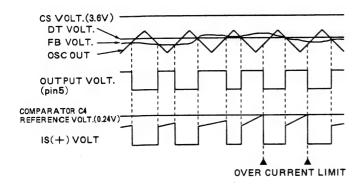


Fig.7-4-5 Over current protector timing chart

The over-current protector circuit is a pulse-by-pulse type circuit which detects peak level of drain current of Q1, the switch MOS FET, at every pulse output.

The circuit consisting of R9 and R11 converts drain current of Q1 into voltage signal, which is supplied to the IS terminal of IC1. If this voltage exceeds the reference voltage of the comparator C4 inside IC1, C4 outputs high level signal to set the flip-flop circuit. Accordingly, IC1 cut off the output to interrupt the over-current.

The flip-flop circuit again starts operation to be reset in the next cycle of OSC output.

7.5 AUTOMATIC ADJUSTMENT FUNCTIONS

7.5.1 Outline

This model. reduces adjustment items in number because adjustments of the audio and servo systems are partially automatized.

Adjustment items automatized in this model are shown below.

Servo system

- 1 Adjustment of REEL FG duty ratio
- 2 Adjustment of CAP FG duty ratio
- (3) Adjustment of stop servo (CAP FG gain adjustment)
- 4 Adjustment of PB switching point

Audio system

- 1 Adjustment of normal audio PB level
- 2 Adjustment of normal audio PB frequency response
- 3 Adjustment of Hi-Fi audio PB level
- 4 Adjustment of normal audio REC level
- (5) Adjustment of normal audio REC frequency response
- 6 Adjustment of EE level

7.5.2 Automatic adjustments for servo system

(1) Operation to start automatic adjustments

FG duty ratio, stop servo adjustment

- 1) Set the adjustment mode to "04".
- (a) Turn off the power switch.
- (b) Turn on the power switch, and press the COUNTER RESET, FF and REW buttons simultaneously within 2 sec after the counter display is on.
- (c) Press the MENU (UP) button or the SET (DOWN) button continually until "04" appears in the counter display.

 ② Press the IN/+SHIFT or OUT/-SHIFT button.
- 3 Automatic adjustment starts. Then the mode of the set changes as follows.
- (a) Reel motor rotates.
 - (SUP/TU REEL FG duty ratio automatic adjustment mode)
- (b) Capstan motor rotates.
 - (CAP FG duty ratio automatic adjustment mode)
- (c) Step slow mode
 - (Stop servo automatic adjustment mode)
- (4) When the above automatic adjustments are completed, "04 End" appears in the counter display.

PB switching point adjustment

- ① Set the adjustment mode to "0F".
- 2 Play back the MHPE alignment tape.
- 3 Align the tracking correctly.
- 4 Press the IN/+SHIFT or OUT/-SHIFT button.
- 5 Automatic adjustment starts. When the automatic adjustment is completed, "0F End" appears in the counter display.

(2) FG duty ratio automatic adjustment circuit

The purpose of FG duty ratio adjustment is to shape feeble output (sine wave) of the MR element installed for detecting rotation speed and rotating direction of each motor to be a rectangular waveform of 50 % duty ratio.

Accordingly, irregularity in the characteristics of MR elements is electrically removed. Therefore, the FG duty ratio adjustment must be performed after either of the capstan motor and reel motor is replaced.

Actually, there are six FG duty ratio adjustment circuits provided in this set since each motor has two built-in MR elements (A, B).

The following explains about the automatic adjustment circuit for CAPSTAN FG A pulse by way of example.

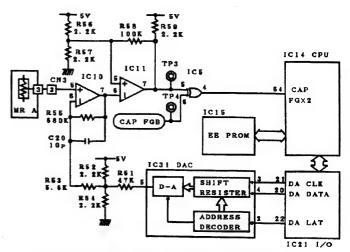


Fig. 7-5-1 FG duty ratio automatic adjustment circuit

Simply explaining the operation, the CPU of IC14 transforms DC voltage output from the D-A converter while measuring the CAPSTAN FG duty ratio. When the duty ratio becomes 50 %, the CPU writes the data in the EEPROM of IC15.

Detailed operation of the CPU IC14 is as follows.

- ① The CPU starts the capstan motor.
- 2 It regulates the D-A converter output for CAP FG B pulse to 0 V. As a result, there is no CAP FG B output at TP4 and the CPU (pin 64, IC14) is supplied only with CAP FG A pulse.
- 3 The D-A converter (pin 5, IC31) outputs 2.5 V.
- The duty ratio at that time is measured. (average of three) measurement results)
- (5) If the duty ratio is 40 to 60 %, the CPU commences motor speed control and measures duty ratio again. (average of 768 measurement results)
- 6 According to the lastly measured duty ratio, the CPU decides the voltage to be output from the D-A converter. In detail, the CPU changes the voltage so as to set the duty ratio to 50 % as shown in the figure below.

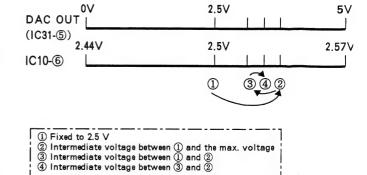


Fig. 7-5-2 Change in output voltage of D-A converter

① The CPU writes the 8th D-A converter output data in the EEPROM IC15.

(If 50 % duty ratio is obtained before the 8th measurement, measurement is suspended and the last data is written in the EEPROM.)

(3) Stop servo automatic adjustment

The stop servo circuit functions to fix the stop point of the capstan motor electrically, and it starts operation as the tape speed is slowed down nearly to 1/10X speed.

Motor drive voltage generated by the CPU during stop servo operation has such a waveform as shown in Fig. 7-5-3, and it is yielded by folding back the CAP FG A pulse at 2.5 V.

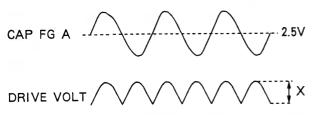


Fig. 7-5-3 Waveform of capstan motor drive voltage

Compared with previous models that needs gain adjustment to make the level X (in the above figure) constant since the level of CAP FG A depends on motor's peculiarity, this model automatically adjusts the gain by the function employed in the CPU.

The CPU first measures input level of FG pulse (at pin 68 of IC14) to make the drive voltage constant in stop servo operation.

For this level measurement, the motor is required to run at a 1/100X speed approximately for yielding CAP FG pulse without distortion.

However, this is a theoretical requirement and it is impossible in practical operation.

Therefore, this model utilizes the step slow mode for FG level measurement and measures FG level just before the tape running is stopped.

According to the mean FG level (average of 24 measurement results), the CPU calculates a constant to output drive voltage at a specific level and writes it in the EEPROM.

(4) PB switching point automatic adjustment

PB switching point adjustment is necessary for correct change of DRUM FF polarity that is used as information of video head position.

Since DRUM FF signal is obtained by delaying DRUM PG signal, the PB switching point adjustment changes the delay time so that the polarity of DRUM FF changes 6.5 H before V. sync as the MHPE alignment tape is played back. This model automatizes this adjustment by the CPU.

- ① The CPU IC14 inputs DRUM PG, PB V. SYNC and PB H. SYNC signals through one input port (pin 56) by timedivision method as well as done in the BR-S822.
- ② The CPU changes delay time of DRUM PG to yield DRUM FF and calculates data so as to obtain 6.5 H as a period from DRUM FF to PB V. sync. (The CPU changes delay time from the large amount of DRUM FF's delay.)
- 3 The CPU repeats data measurement six times to obtain a mean value of four measurement results excluding the largest and smallest ones, and writes it in the EEPROM.

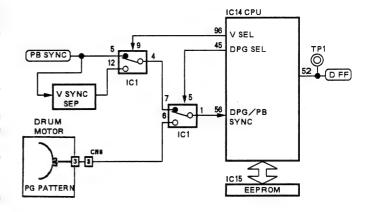


Fig. 7-5-5 PB switching point automatic adjustment circuit (SERVO/M-CTL board)

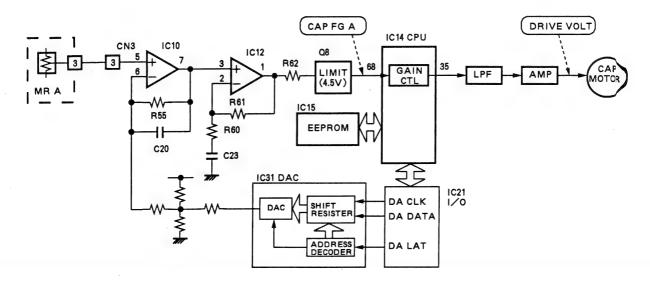


Fig. 7-5-4 Stop servo automatic adjustment circuit (SERVO/M-CTL board)

7.5.3 Automatic adjustment functions for audio system

(1) Table of audio system adjustment modes

There are two kinds of adjustment modes (automatic adjustment and manual adjustment) provided for the audio system, and either of adjustment modes is usable.

	Adjustment mode No.	Adjustment item
Ma	11	EE level adjustment
nual	12	PB level adjustment
Manual adjustment	13	PB frequency response adjustment
ustn	14	REC level adjustment
nent	15	REC frequency response adjustment
	16	Initialization of adjustment value
	17	Overall automatic adjustment (for factory use)
Aut	18	Normal audio PB level adjustment
) II	19	Normal audio PB frequency response adjustment
3tic	1A	Hi-Fi audio PB level adjustment
adj	1B	Normal audio REC level adjustment
Automatic adjustment	1C	Normal audio REC frequency response adjustment
TIBETT	1D	Hi-Fi audio deviation adjustment
-	1E	REC mode automatic adjustment

Table 7-5-1 Table of audio system adjustment modes

(2) Operation procedure

① Turn off the power switch.

② Turn on the power switch again and press the COUNTER RESET, FF and REW buttons simultaneously within 2 sec after the counter display is on.

3 Press the MENU (UP) or SET (DOWN) button continually until the desired adjustment No. appears in the counter display.

[Manual adjustment]

Manual adjustment procedure is the same as for previous models, namely, input required signal through the LINE IN terminal and connect a measuring instrument to the LINE OUT terminal.

- Select a channel desired for adjustment with the AUDIO MONIOR switch.
 - CH1: for adjustment of CH1 only
 - CH2: for adjustment of CH2 only
 - MIX: for adjustment of both channels (BR-S800 only)
- (5) Select normal audio or Hi-Fi audio with the AUDIO MONITOR switch.
- 6 Switching between S-VHS and VHS modes depends on the type of cassette tape inserted.
- ① Manual adjustment is effectuated by pressing the COUNTER RESET button.
- Use the REC LEVEL VRs (TRACKING VR for BR-S500) for adjustment.
- Adjustment value is written in the EEPROM by pressing the AUTO MODE switch.

[Automatic adjustment]

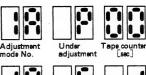
Automatic adjustment needs neither connection of measuring instrument nor change of menu switch setting. (Actually, NR and Limiter circuits are off, and menu switch setting is accordingly unchanged.)

- Note 1:Set the TRACKING VR to the center position. Note 2: Proceed in the order of the adjustment mode numbers except No. 17.
- Note 3: Do not use the adjustment mode No. 17 since this is provided for factory use only.

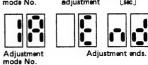
- 4) Pressing the COUNTER RESET button effectuate automatic adjustment mode.
- When adjustment is completed, "End" appears in the counter display and the cassette tape is ejected.

In automatic adjustment the following indications appear in the counter display.

During adjustment



When adjustment ends



If adjustment error occurs, the following indications appear in the counter display.

When adjustment error occurs

	Adjustment Error Error No.
--	----------------------------

Error No.	Detail of error
E11	Error in normal audio CH1 PB level adjustment
E12	Error in normal audio CH2 PB level adjustment
E13	Error in Hi-Fi audio L-ch PB level adjustment
E14	Error in Hi-Fi audio R-ch PB level adjustment
E15	Error in normal audio CH1 REC level adjustment
E16	Error in normal audio CH2 REC level adjustment
E17	Error in Hi-Fi audio L-ch deviation adjustment
E18	Error in Hi-Fi audio R-ch deviation adjustment
E19	Error in normal audio CH1 PB frequency response adjustment
E1A	Error in normal audio CH2 PB frequency response adjustment
E1B	Error in normal audio CH1 REC frequency response adjustment
E1C	Error in normal audio CH2 REC frequency response adjustment
E1D	Misinsertion of cassette tape

Table 7-5-2 Table of error numbers

(3) Initialization of adjustment value

The adjustment mode No. 16 is provided to preset the theoretical design values in the EEPROM.

If the EEPROM IC10 on the FM AUDIO board is replaced, the set is enabled to record and play back without performing respective adjustments. For actual use, however, make sure to adjust respective items to obtain better sound since the preset values are theoretical to the last.

- 1 Take the cassette tape out of the set and then turn off the power switch.
- Turn on the power switch again, and press the COUNTER RESET, FF and REW buttons simultaneously within 2 sec after the counter display is on.
- 3 Press the MENU (UP) or SET (DOWN) button continually until the adjustment No. 16 appears in the counter
- 4 After pressing the COUNTER RESET button, press the AUTO MODE button to write the preset values in the EEPROM.

(4) Automatic adjustment mode

In the automatic adjustment modes (No. 17 through No. 1E) respective adjustments shown in Table 7-5-3 are performed automatically under control of the CPU of IC9 on the FM AUDIO board.

For carrying out the automatic adjustments, this model employs VCAs (Voltage Controlled Amplifier) as adjustment VRs, therefore, signal level is varied as the CPU controls output voltage of the D-A converter.

On the other hand, DC voltage generated by rectifying LINE OUT signal is supplied to the A-D input port (pin 58) of the CPU to enable it to measure output signal level.

(a) PB level adjustment

With playback of the 1 kHz reference signal of the alignment tape, the VCA for PB level adjustment is controlled so that the LINE OUT signal meets the specifications in the level.

(b) EE level adjustment

The CPU supplies the 1 kHz signal having the reference level from the PWM output terminal (pin 78) to the audio circuit. The automatic adjustment controls the VCA for EE level adjustment so that the LINE OUT signal meets the specifications in the level.

The VCA for normal audio EE level adjustment generally serves as the REC level adjustment VR on the front panel.

Adjustment item		Adjustment mode No.									REF.	REF. SIG. SIG. SIG. CTL1 CTL2		GAIN CTL	GAIN CTL2	Level control
		No. 17	No. 18		No. 1A	No. 1B	No. 1C	No. 1D			IC9 -40	IC9 -39	IC9 -38	IC9 -16	IC9 -17	terminal
Pilot signal search		0									Н	L	Н	L	L	-
Normal audio CH1 PB level (1kHz)		0	0							Playback of MBAE alignment tape	Н	L	Н	L	Н	IC7pin8 (N. AUD PWB)
Normal audio CH2 PB level (1kHz)		0	0							Playback of MBAE alignment tape	Н	Н	L	L	Н	IC8pin8 (N. AUD PWB)
Normal audio CH1 PB frquency response (400Hz ⇒ 8kHz)		0		0						Playback of MH-8 alignment tape	Н	L	Н	Н	L	IC7pin10 (N. AUD PWB)
Normal audio CH2 PB frquency response (400Hz ⇒ 8kHz)		0		0						Playback of MH-8 alignment tape	Н	Н	L	Н	L	IC8pin10 (N. AUD PWB)
Hi-Fi audio L-ch PB level (1kHz)		0			0					Playback of MH-F8/MBAFE-2 alignment tape	Н	L	L	L	L	IC5pin8 (FM AUD PWB)
Hi-Fi audio R-ch PB level (1kHz)		0			0					Playback of MH-F8/MBAFE-2 alignment tape	Н	Н	Н	L	L	IC5pin10 (FMAUDPWB)
Normal audio CH1 EE level		0				0	0		0	PWM 24 kHz carrier, 1 kHz modulated wave	Н	L	Н	L	L	IC9pin8 (N. AUD PWB)
Normal audio CH2 EE level		0				0	0		0	PWM 24 kHz carrier, 1 kHz modulated wave	Н	Н	L	L	L	IC10pin8 (N. AUD PWB)
Normal audio REC level	REC mode	0				0			0	PWM 24 kHz carrier, 1 kHz modulated wave	Н	L	Н	L	L	IC9/IC10pin10 (N. AUD PWB)
	CH1 adj. (PB mode)	0				0			0	Play back selfrecorded signal.	Н	L	Н	L	L	_
	CH2 adj. (PB mode))	0				0			0	Play back selfrecorded signal.	Н	Н	L	L	L	_
Normal audio REC frequency response	REC mode	0					0		0	8 kHz pulse	Н	L	Н	Н	L	Q201/Q202-B (N. AUD PWB)
	CH1 adj. (PB mode)	0					0		0	Play back selfrecorded signal.	Н	L	Н	Н	L	_
	CH2 adj. (PB mode))	0					0		0	Play back selfrecorded signal.	Н	Н	L	Н	L	_
Hi-Fi audio deviation	REC mode	0						0	0	PWM 24 kHz carrier, 1 kHz modulated wave	Н	L	L	L	L	IC2pin2/pin62 (FMAUDPWB)
	CH1 adj. (PB mode)	0						0	0	Play back selfrecorded signal.	Н	L	L	L	L	_
	CH2 adj. (PB mode))	0						0	0	Play back selfrecorded signal.	Н	Н	Н	L	L	-
Hi-Fi audio L-ch EE level		0						0	0	PWM 24 kHz carrier, 1 kHz modulated wave	Н	L	L	L	L	IC5pin8 (FMAUD PWB)
Hi-Fi audio R-ch EE level		0						0	0	PWM 24 kHz carrier, 1 kHz modulated wave	Н	Н	Н	L	L	IC5pin10 (FMAUD PWB)

Table 7-5-3 Function table of automatic adjustment modes

As shown in Fig. 7-5-6, the CPU outputs modulated-wave signal that 1 kHz signal is modulated in pulse width with 24 kHz carrier. This makes easy to remove higher harmonic component which is included in rectangular wave. This signal is converted into sine wave by an external LPF and then supplied to the audio circuit.

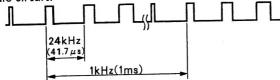


Fig. 7-5-6 Modulated-wave 1 kHz signal

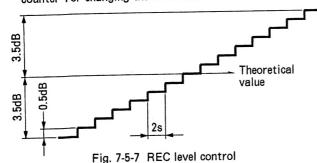
(c) REC level adjustment

This set has no need of repeated operations of recording and playback for REC level adjustment as done for previous models, but requires recording and playback just once.

① The set enters in the REC mode.

The CPU output 1 kHz signal of reference level from the PWM output terminal.

3 Controlling the VCA for REC level adjustment, the CPU raises signal level to be recorded on the tape by 0.5 dB every 2 seconds in 15 steps (\pm 3.5 dB to the theoretical value). At that time, the CPU utilizes the value indicated by the tape counter for changing the REC level.



4 The CPU finalizes the REC level according to the value of

the tape counter as the playback signal level meets the specifications.

(d) Normal audio PB frequency response adjustment

As the alignment tape (MH-8) on which 400 Hz and 8 kHz signals are recorded at the level of -20 dB is played back, the CPU adjusts the level of the 8 kHz signal so that it becomes 0 dB to that of the 400 Hz signal.

- ① The CPU searches the 400 Hz signal segment in the Search mode. (For detecting the frequency of a PB signal, the CPU inputs the PB signal through pin 2 (EV2).)
- 2) The PB level of the 400 Hz signal is stored in the memory.
- 3 The 8 kHz signal segment is searched in the Search mode.
- The CPU adjusts the VCA of the adding equalizer so that the PB level of the 8 kHz signal becomes 0 dB to the PB level of the 400 Hz signal.

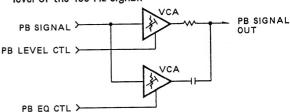


Fig. 7-5-8 Adding equalizer circuit

(e) Normal audio REC frequency response adjustment

The 8 kHz, -20 dB signal is recorded and played back to adjust its PB level so as to meet the specifications (-20 dB to the reference level).

① The CPU enters the set in the REC mode.

The CPU outputs the 8 kHz, 0 dB signal from the PWM output terminal.

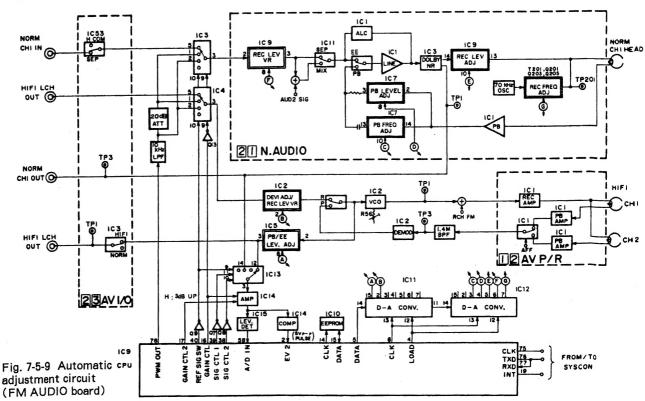
The CPU changes the signal level to -20 dB with the

external 20 dB attenuator.

① Controlling the VCA for bias level adjustment, the CPU decreases the REC bias level by 0.5 dB every 2 seconds in 13 steps (± 3.0 dB to the theoretical value).

At that time, the CPU utilizes the value indicated by the tape counter for changing the bias level.

The CPU finalizes the bias level according to the value of the tape counter as the playback signal level meets the specifications.



No.	Adjustment mode	Adjustment part	Specifications	Operation mode	Remark	
00	Adjustitient mode	_	_	_		
[00]						
01 [01]		<u></u>	_	-		
02 [02]		. , -	_	_		
	Slow tracking preset	[TRACKING VR]	No noise	+1/30X speed	[IN/+SHIFT]: to start adjustment [AUTO MODE]: to memorize adj. data	
04 [04]	FG duty ratio/Stop servo	Automatic	_	Without casset- te inserted	[IN ∕ + SHIFT]: to start adjustment	
05 [05]	. —	_	_	_		
06 [06]	-	-	-	_		
07 [07]	Reversing torque	[IN/+SHIFT]:UP [OUT/-SHIFT]:DOWN	176g-cm	-1×		
08 [80]	-	-	-	_	1	
09 [09]	-	_	-	-		
0A [0A]	Take-up torque	[IN/+SHIFT]:UP [OUT/-SHIFT]:DOWN	170g-cm	REC or PLAY		
0B [0b]	Loading torque	[IN/+SHIFT]:UP [OUT/-SHIFT]:DOWN	30g-cm	PLAY	Supply reel motor is controlled by loading torque.	
0C [0C]	Play back tension	[IN/+SHIFT]:UP [OUT/-SHIFT]:DOWN	BR-S800:58g-cm BR-S500:63g-cm	REC or PLAY		
0D [0d]	_	_	_	_		
0E [0E]	_	-	_	-		
0F [0F]	Switching point	Automatic	_	PB of MHPE alignment tape		
10 [10]	-	<u>-</u>	_	_		
11. [11]	Audio EE level	BR-S800:[REC LEV VR]		EE	[COUNTER RESET]: to start adj [AUTO MODE]: to memorize adj. data.	
12 [12]	Audio PB level		HiFi: -6dBs	PB of MBAE/MH-F8 alignment tape	Adjustment order: Normal audio: [12], [13], [11], [14],[15] Hi-Fi audio: [12], [14], [11] after carrier frequencyadj	
13 [13]	Normal audio PB frequency response	BR-S500:[TRC VR]	ref.(400Hz) level.	alignment tape		
14 [14]	Audio REC level	BR-S800:[REC LEV VR]		REC/PLAY	REC system should be ad justed both in the VHS and S-VHS modes.	
15 [15]	Normal audio REC frequency response	BR-S800:[REC LEV VR]	8 kHz : Same level as ref.(400Hz) level.	REC/PLAY	o-viio illoues.	
16 [16]	Audio EEPROM preset mode			· <u>-</u>		
17 [17]	Overall automatic adjustment of audio system		-	-	For factory use	
18 [18]	Normal audio PB level	Automatic		PB of MBAE alignment tape		
19 [19]	Normal audio PB frequency response		. –	PB of MH-8 alignment tape		
1A [1A]	Hi-Fi audio PB level	Automatic	-	PB of MH-F8 alignment tape		
[1b]	Normal audio REC level	Automatic	-	-	Should be adjusted both in the VHS and S-VHS modes.	
	Normal audio REC frequency response		-	-	Should be adjusted both in the VHS and S-VHS modes.	
1D [1d]	Hi-Fi audio EE level	Automatic	_	_	Charle handing the control of	
	Audio REC system automatic adjustment			Without seed	Should be adjusted both in the VHS and S-VHS modes.	
1F [1F]	Loading / Unloading test mode	[IN/+SHIFT] : Lo [OUT/—SHIFT] : Ur		Without casset- te inserted		

Table 7-5-4 Table of adjustment modes

7.6 CTL TIME CODE

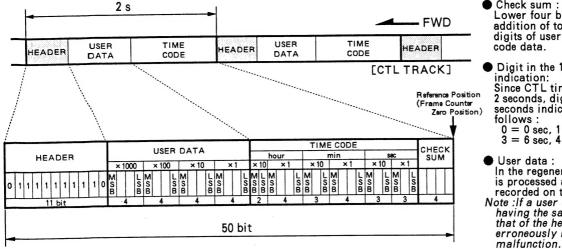


Fig. 7-6-1 Construction of CTL time code

Check sum : Lower four bits of a result of binary addition of total 10 digits that all digits of user data and those of time

Digit in the 1st place of second indication:
Since CTL time code is written every 2 seconds, digits in the 1st place of seconds indication should be read as follows:

0 = 0 sec, 1 = 2 sec, 2 = 4 sec, 3 = 6 sec, 4 = 8 sec.

In the regeneration mode, user data is processed as same as other data recorded on the tape.

Note: If a user data contains any data having the same numeric string as that of the header portion, it is erroneously read out and causes

7.7 HEADS ARRANGEMENT ON UPPER DRUM

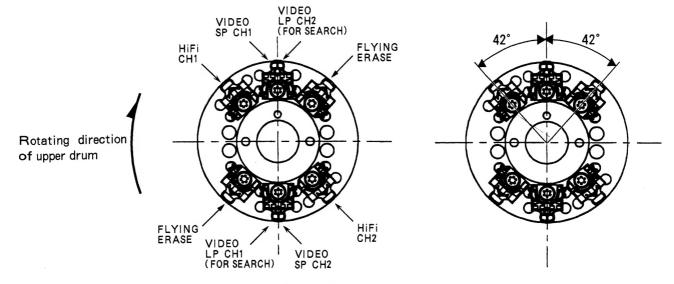


Fig. 7-7-1 BR-S800E heads arrengement

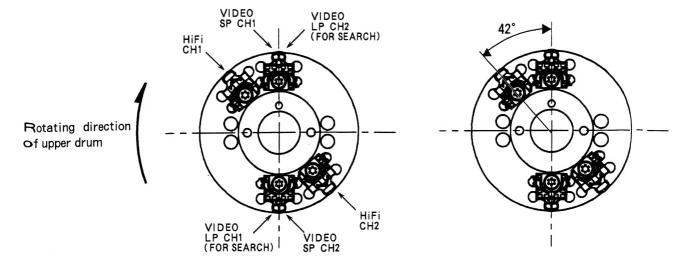


Fig. 7-7-2 BR-S500E heads arrengement